



# STIC Search Report

EIC 1700

STIC Database Tracking Number: 180673

TO: Callie Shosho  
Location: REM 10D15  
Art Unit : 1714  
February 28, 2006

Case Serial Number: 10/600160

From: Les Henderson  
Location: EIC 1700  
REM 4B28 / 4A30  
Phone: 571-272-2538

Leslie.henderson@uspto.gov

## Search Notes

I couldn't find a common name for the dyes. They appear to be derivatives of a pyrazolo triazole (pyrazolo[5,1-c]-1,2,4-triazole).

The answer set combines all your requests. A broad search of claim 1 for the parent structure was attempted, but it was too broad to run. There were no problems with your specific requests.

*As a class, the authors call their dyes  
azo, azomethine and methine dyes.*



# STIC Search Results Feedback Form

**EIC17000**

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

Kathleen Fuller, EIC 1700 Team Leader  
571/272-2505 REMSEN 4B28

## Voluntary Results Feedback Form

- I am an examiner in Workgroup:  Example: 1713  
➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to EIC1700 REMSEN 4B28

Please do a **SEARCH REQUEST FORM**

180673  
SCIENTIFIC REFERENCE BR  
Sci & Tech Inf. Cntr.

RUSH

Scientific and Technical Information Center

FEB 27 1996

*Am. J. Agonist*  
SPE, 1714

Requester's Full Name: Callie Shusho Examiner #: 028024 Pat. & T.M. Office Date: 2/27/06  
Art Unit: 1714 Phone Number 301-272-1123 Serial Number: 101600160  
Mail Box and Bldg/Room Location: Room 10015 Results Format Preferred (circle) PAPER DISK E-MAIL  
(10011 mailbox)

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Colored particle dispersion, Ink Jet Ink, Dye, & Ink Jet

Inventors (please provide full names): Mari Takahashi, Satoru Ikeda, Takatugu Suzuki Record  
men

Earliest Priority Filing Date: 6/20/03

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

→ Please find the dye of claim 1

$$X = D - B$$

Wherein X is formula 1-4 (see claim 14 for specific example)  
D is nitrogen atom or  $=CR_1-$   
where  $R_1$  is H or substituent

B is formula 2-3

→ Also find dye of claim 18 which is the above dye also having attached group  
b of the formula 4 as found in

Claim 19.

→ Does the dye have any chemical name I can search

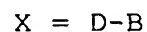
STAFF USE ONLY

Searcher: <u>2H</u>	Type of Search	Vendors and cost where applicable
Searcher Phone #: _____	NA Sequence (#) _____	STN <u>\$582,10</u>
Searcher Location: _____	AA Sequence (#) _____	Dialog _____
Date Searcher Picked Up: _____	Structure (#) <u>3</u>	Questel/Orbit _____
Date Completed: <u>2/28/06</u>	Bibliographic _____	Dr. Link _____
Searcher Prep & Review Time: <u>30</u>	Litigation _____	Lexis/Nexis _____
Clerical Prep Time: <u>30</u>	Fulltext _____	Sequence Systems _____
Online Time: <u>240</u>	Patent Family _____	WWW/Internet _____
	Other _____	Other (specify) _____

What is claimed is:

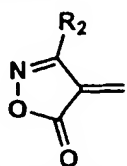
1. A colored dispersion comprising a polymer and a dye represented by General Formula (1):

General Formula (1)

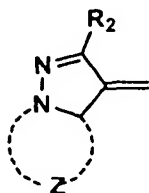


wherein X is a group represented by General Formulas (1-1) to (1-15); D is a nitrogen atom or  $=CR_1-$ ,  $R_1$  being a hydrogen atom or a substituent; and B is a group represented by General Formulas (2-1) to (2-16):

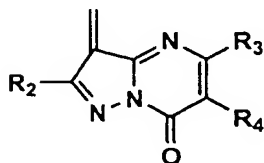
General Formula (1-1)



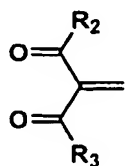
General Formula (1-4)



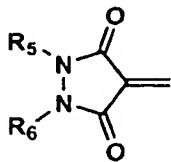
General Formula (1-7)



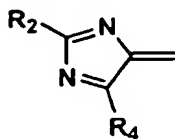
General Formula (1-10)



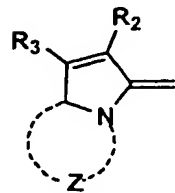
General Formula (1-13)



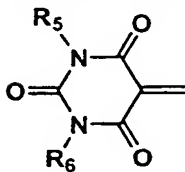
General Formula (1-2)



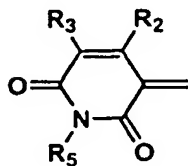
General Formula (1-5)



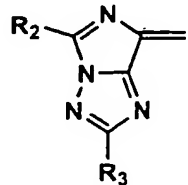
General Formula (1-8)



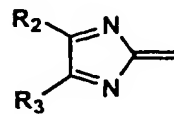
General Formula (1-11)



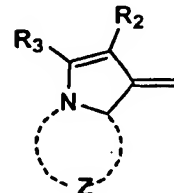
General Formula (1-14)



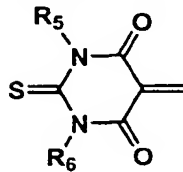
General Formula (1-3)



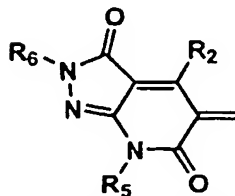
General Formula (1-6)



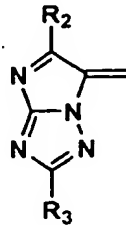
General Formula (1-9)



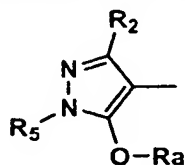
General Formula (1-12)



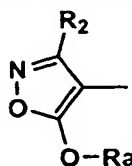
General Formula (1-15)



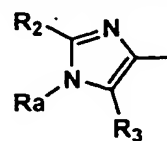
General Formula (2-1)



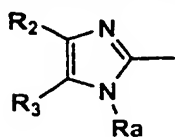
General Formula (2-2)



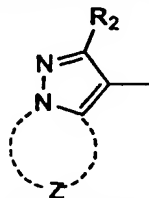
General Formula (2-3)



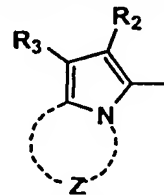
General Formula (2-4)



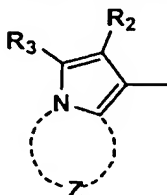
General Formula (2-5)



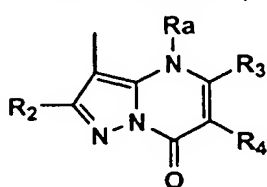
General Formula (2-6)



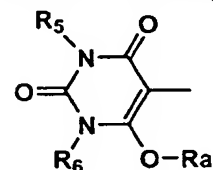
General Formula (2-7)



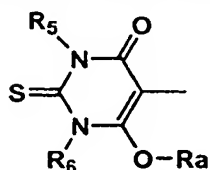
General Formula (2-8)



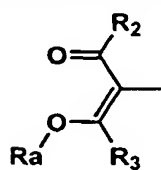
General Formula (2-9)



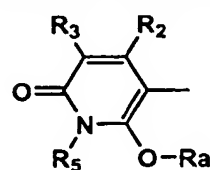
General Formula (2-10)



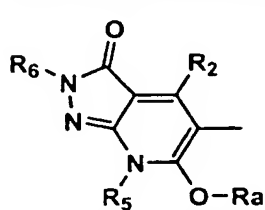
General Formula (2-11)



General Formula (2-12)



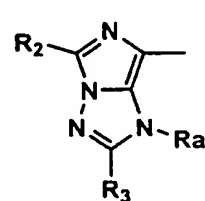
General Formula (2-13)



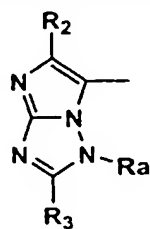
General Formula (2-14)



General Formula (2-15)



General Formula (2-16)



wherein  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$ , and  $R_a$  each is a hydrogen atom or a substituent, provided that  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$ , or  $R_a$  may be jointed together to form a ring; and Z is a group of atoms which forms a 5- or 6-membered heterocyclic ring containing a nitrogen atom in the heterocyclic ring, provided that the heterocyclic ring may have a substituent or may be further condensed with a ring.

2. The colored dispersion of claim 1, wherein X in General Formula (1) is represented by General Formula (1-2), General Formula (1-4), General Formula (1-5) or General Formula (1-6).

3. The colored dispersion of claim 1, wherein B in General Formula (1) is represented by General Formula (2-3), General Formula (2-4), General Formula (2-5), General Formula (2-6), or General Formula (2-7).

4. The colored dispersion of claim 1, wherein X in General Formula (1) is represented by General Formula (1-2) or General Formula (1-4).

5. The colored dispersion of claim 1, wherein B in General Formula (1) is represented by General Formula (2-3) or General Formula (2-5).
6. The colored dispersion of claim 1, wherein X in General Formula (1) is represented by General Formula (1-4).
7. The colored dispersion of claim 1, wherein B in General Formula (1) is represented by General Formula (2-3).
8. The colored dispersion of claim 1, wherein X in General Formula (1) is represented by General Formula (1-4) and B in General Formula (1) is represented by General Formula (2-3).
9. The colored dispersion of claim 1, wherein X or B in General Formula (1) is substituted with at least one hydrogen bonding group selected from the group consisting of -OH, -NHSO<sub>2</sub>Rb, -NHCOORb, -NHCONHRb, or -NHCORc, Rb being a substituent, and Rc being an aryl group, a heterocyclic group, or a branched alkyl group.
10. The colored dispersion of claim 1, wherein X or by B in General Formula (1) is substituted with a hydrogen bonding



group, and the hydrogen bonding group forms a hydrogen bond with either a nitrogen atom or an oxygen atom in the heterocyclic ring represented by General Formulas (1-1) to (1-15) or General Formulas (2-1) to (2-16).

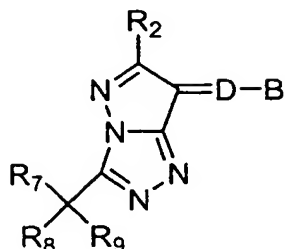
11. The colored dispersion of claim 9, wherein X in General Formula (1) is represent by General Formula (1-4), General Formula (1-5) or General Formula (1-6).

12. The colored dispersion of claim 9, wherein B in General Formula (1) is represent by General Formula (2-3) or General Formula (2-4).

13. The colored dispersion of claim 9, wherein the hydrogen bonding group is -OH or -NHSO<sub>2</sub>Rb, Rb being a substituent.

14. The colored dispersion of claim 1, wherein the dye is represented by General Formula (2):

## General Formula (2)



wherein R<sub>2</sub> is a hydrogen atom or a substituent; D is a nitrogen atom or =CR<sub>1</sub>-, R<sub>1</sub> being a hydrogen atom or a substituent; B is a group represented by General Formulas (2-1) to (2-16); R<sub>7</sub> and R<sub>8</sub> each being a substituent; and R<sub>9</sub> being a hydrogen atom or a substituent.

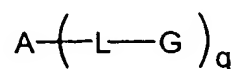
15. The colored dispersion of claim 14, wherein B is represented by General Formulas (2-3), (2-4), (2-5), (2-6) or (2-7).

16. The colored dispersion of claim 14, wherein B is represented by General Formula (2-3), or General Formula (2-5).

17. The colored dispersion of claim 14, wherein B is represented by General Formula (2-3).

18. A colored dispersion comprising a polymer and a dye represented by General Formula (3):

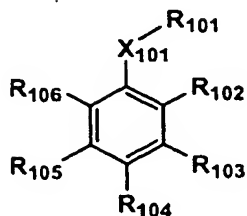
General Formula (3)



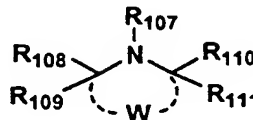
wherein A is a residue of a dye represented by General Formula (1); L is a divalent linking group or a single bond; G is a group comprising a fade preventing group for the dye residue; and q is an integer of 1 or 2, provided that when q is 2, each -L-G may be the same or different.

19. The colored dispersion of claim 18, wherein G in General Formula (3) is a residue of a compound selected from the group consisting of General Formulas (4) to (9), the residue being a part of the compound which is eliminated a hydrogen atom from the compound:

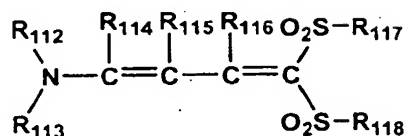
General Formula (4)



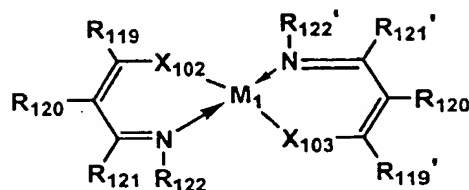
General Formula (5)



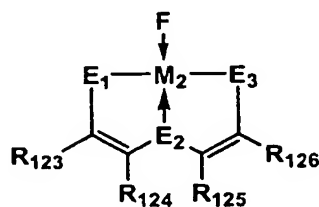
General Formula (6)



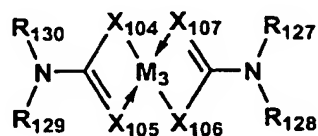
General Formula (7)



General Formula (8)



General Formula (9)



wherein  $R_{101}$  represents a hydrogen atom, an alkyl group, an alkenyl group, an aryl group, a heterocyclic group, a silyl group, or a phosphino group;  $X_{101}$  represents  $-O-$ ,  $-S-$ , or  $-(NR_d)-$ , wherein  $R_d$  represents a hydrogen atom, an alkyl group, or an aryl group;  $R_{102}$ ,  $R_{103}$ ,  $R_{104}$ ,  $R_{105}$ , and  $R_{106}$  each represents a hydrogen atom or a non-metallic substituent and substituents at the ortho position of  $R_{102}$  through  $R_{106}$  can be joined together to form a 5- to 7-membered ring;  $R_{107}$

represents a hydrogen atom, an alkyl group, an alkenyl group, an aryl group, a hydroxyl group, an acyl group, a sulfonyl group, or a sulfinyl group; W represents a group of non-metallic atoms necessary to form a 5- to 7-membered ring having either an oxygen atom or a nitrogen atom;  $R_{108}$ ,  $R_{109}$ ,  $R_{110}$ , and  $R_{111}$  each represents a hydrogen atom or a non-metallic substituent;  $R_{112}$ ,  $R_{113}$ ,  $R_{114}$ ,  $R_{115}$ ,  $R_{116}$ ,  $R_{117}$ , and  $R_{118}$  each represents a non-metallic substituent exhibiting an ultraviolet ray absorbing function;  $M_1$  and  $M_2$  each represents copper, cobalt, nickel, palladium, or platinum;  $M_3$  represents nickel, cobalt, or iron;  $R_{119}$ ,  $R_{120}$ ,  $R_{121}$ ,  $R_{119}'$ ,  $R_{120}'$ , and  $R_{121}'$  each represents a hydrogen atom, an alkyl group, or an aryl group;  $R_{122}$  and  $R_{122}'$  each represents a hydrogen atom, an alkyl group, an aryl group, a hydroxyl group, an alkoxy group, or an aryloxy group;  $X_{102}$  and  $X_{103}$  each represents -O-, or -S-; each substituent of  $R_{119}$  through  $R_{122}$  and  $R_{119}'$  through  $R_{122}'$  can be joined together with an adjacent group to form an aromatic ring or a 5- to 8-membered ring;  $E_1$  and  $E_3$  each independently represents -O-, -S-, or -N( $R_{131}$ )-; an  $E_1$ - $M_2$  bond or an  $E_3$ - $M_2$  bond may be a coordinate bond and in such cases,  $E_1$  and  $E_2$  each represents a hydroxyl group, a mercapto group, an alkoxy group, an alkylthio group, or -N( $R_{131}$ )( $R_{132}$ ), wherein  $R_{131}$  and

$R_{132}$  each represents a hydrogen atom, an alkyl group, an aryl group, or a hydroxyl group;  $E_2$  represents  $-O-$ ,  $-S-$ , or  $-N(R_{133})-$ , wherein  $R_{133}$  represents a hydrogen atom or an aryl group;  $R_{123}$  through  $R_{126}$  each independently represents a hydrogen atom, an alkyl group or an aryl group; herein at least two substituents selected from the group consisting of  $R_{123}$  and  $R_{124}$ ,  $R_{125}$  and  $R_{126}$ , and  $R_{124}$  and  $R_{125}$  can be joined together to form a 5- to 8-membered ring;  $F$  represents a compound which is capable of coordinating to  $M_2$ , and the number of coordination positions of the compound is 1 to 5;  $R_{127}$  through  $R_{130}$  each independently represents a hydrogen atom, an alkyl group, an aryl group, or a heterocyclic group;  $X_{104}$  through  $X_{107}$  each represents  $-S-$ , or  $-O-$ ;  $M_3$  represents nickel, cobalt, or iron;  $R_{127}$  and  $R_{128}$  or  $R_{129}$  and  $R_{130}$ , can be joined together to form a ring structure.

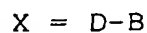
20. The colored dispersion of claim 1, wherein the dispersion comprises particles having a core/shell structure, and the dye and the polymer are incorporated in the core portion.

21. An ink-jet ink comprising the colored particle dispersion of claim 1.

22. A method for recording an image comprising a step of:  
jetting a droplet of an ink-jet ink of claim 21 onto a  
surface of a recording sheet.

23. A dye represented by General Formula (1), wherein X or  
B in General Formula (1) is substituted with at least one  
hydrogen bonding group selected from the group consisting of  
-OH, -NHSO<sub>2</sub>Rb, -NHCOORb, -NHCONHRb, or -NHCORc, Rb being a  
substituent and Rc being an aryl group, a heterocyclic group,  
or a branched alkyl group,

General Formula (1)



wherein X is a group represented by General Formulas  
(1-1) to (1-15); D is a nitrogen atom or =CR<sub>1</sub>-, R<sub>1</sub> being a  
hydrogen atom or a substituent; and B is a group represented  
by General Formulas (2-1) to (2-16):

=> d his ful

(FILE 'HOME' ENTERED AT 08:54:05 ON 28 FEB 2006)

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E US20040010056/PN

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640303-87-3/BI OR 640303-93-1/BI OR 640303-98-6/BI OR  
640304-03-6/BI OR 640304-09-2/BI OR 640304-15-0/BI OR  
640304-21-8/BI OR 640304-26-3/BI OR 640304-31-0/BI OR  
640304-36-5/BI OR 640304-42-3/BI OR 640304-47-8/BI OR  
640304-52-5/BI OR 640304-65-0/BI OR 640304-71-8/BI OR  
641610-30-2/BI OR 9011-14-7/BI)  
D SCAN

FILE 'LREGISTRY' ENTERED AT 09:09:05 ON 28 FEB 2006

L3 STR

FILE 'REGISTRY' ENTERED AT 09:21:55 ON 28 FEB 2006

L4 2 SEA SSS SAM L3  
D SCAN  
L5 SCR 2043 OR 1918  
L6 99 SEA ABB=ON PLU=ON L2 AND 1-10/NR  
L7 7 SEA ABB=ON PLU=ON L2 NOT L6  
D SCAN  
L8 3 SEA ABB=ON PLU=ON L6 AND 1/NR  
D SCAN  
L9 2 SEA ABB=ON PLU=ON L6 AND 2/NR  
D SCAN  
L10 92 SEA ABB=ON PLU=ON L6 NOT PMS/CI  
L11 7 SEA ABB=ON PLU=ON L6 NOT L10  
D SCAN



L12 4 SEA ABB=ON PLU=ON L10 AND 3/NR  
D SCAN  
L13 2 SEA ABB=ON PLU=ON L10 AND 9-10/NR  
D SCAN  
L FILE 'LREGISTRY' ENTERED AT 09:38:34 ON 28 FEB 2006  
L14 STR L3  
FILE 'REGISTRY' ENTERED AT 09:42:25 ON 28 FEB 2006  
L15 2 SEA SSS SAM L14  
D SCAN  
L16 SCR 1840  
DIS  
L17 6 SEA SSS SAM L14 AND L16 NOT L5  
D SCAN  
D QUE STAT  
L18 SCR 1923 OR 2016  
L19 7 SEA SSS SAM L14 AND L16 NOT (L5 OR L18)  
D SCAN  
L20 23 SEA ABB=ON PLU=ON L2 AND 1-20/X  
L21 SCR 1840 OR 1992  
L22 14 SEA SSS SAM L14 AND L21 NOT (L5 OR L18)  
D QUE STAT  
L23 SCR 1840 AND 1992  
L24 17 SEA SSS SAM L14 AND L23 NOT (L5 OR L18)  
L25 0 SEA ABB=ON PLU=ON L2 AND 1-10/SI  
L26 SCR 2026  
L27 11 SEA SSS SAM L14 AND L23 NOT (L5 OR L18 OR L26)  
D SCAN  
D QUE STAT  
FILE 'LREGISTRY' ENTERED AT 10:04:52 ON 28 FEB 2006  
L28 STR L14  
FILE 'REGISTRY' ENTERED AT 10:05:47 ON 28 FEB 2006  
L29 11 SEA SSS SAM L28 AND L23 NOT (L5 OR L18 OR L26)  
D QUE STAT  
FILE 'LREGISTRY' ENTERED AT 10:17:26 ON 28 FEB 2006  
L30 STR L28  
FILE 'REGISTRY' ENTERED AT 10:19:33 ON 28 FEB 2006  
L31 11 SEA SSS SAM L30 AND L23 NOT (L5 OR L18 OR L26)  
L32 SCR 2077  
L33 0 SEA ABB=ON PLU=ON L10 AND 2/NC  
L34 92 SEA ABB=ON PLU=ON L10 AND 1/NC  
L35 14 SEA SSS SAM L30 AND L23 NOT (L5 OR L18 OR L26 OR L32)  
L36 SCR 2127  
L37 9 SEA SSS SAM L30 AND L23 NOT (L5 OR L18 OR L26 OR L36)  
D SCAN  
L38 SCR 1035 OR 1099 OR 1256 OR 1097 OR 1249 OR 1200 OR 108  
L39 16 SEA SSS SAM L30 AND L23 AND L38 NOT (L5 OR L18 OR L26)  
L40 16 SEA SSS SAM L30 AND (L23 AND L38) NOT (L5 OR L18 OR  
L26)  
L41 10 SEA SSS SAM L30 AND (L23 AND L38) NOT (L5 OR L18 OR  
L26 OR L36)  
L42 SCR 1846  
L43 10 SEA SSS SAM L30 AND (L23 AND L38) NOT (L5 OR L18 OR  
L26 OR L36 OR L42)  
D SCAN  
L44 18 SEA ABB=ON PLU=ON L10 AND 10-20/N  
D SCAN  
L45 SCR 1999  
L46 8 SEA SSS SAM L30 AND (L23 AND L38) NOT (L5 OR L18 OR  
L26 OR L36 OR L42 OR L45)  
D SCAN

L47 D QUE STAT  
SCR 811 OR 846 OR 8 OR 9 OR 54 OR 12 OR 9 OR 142 OR 143  
D QUE STAT L46  
L48 9 SEA SSS SAM L30 AND (L23 AND L38 AND L47) NOT (L5 OR  
L18 OR L26 OR L36 OR L42 OR L45)  
D SCAN  
D QUE STAT

L49 FILE 'LREGISTRY' ENTERED AT 13:03:34 ON 28 FEB 2006  
STR

L50 FILE 'REGISTRY' ENTERED AT 13:11:58 ON 28 FEB 2006  
1 SEA SSS SAM L49  
D SCAN  
D CN  
D QUE STAT

L51 58 SEA SSS FUL L49  
SAV L51 SHO160/A

L52 FILE 'LREGISTRY' ENTERED AT 13:19:11 ON 28 FEB 2006  
STR L49

L53 FILE 'REGISTRY' ENTERED AT 13:27:35 ON 28 FEB 2006  
23 SEA ABB=ON PLU=ON L2 AND L51  
L54 0 SEA SUB=L51 SSS SAM L52  
L55 17 SEA SUB=L51 SSS FUL L52  
SAV L55 SHO160A/A

L56 FILE 'LREGISTRY' ENTERED AT 13:33:28 ON 28 FEB 2006  
STR

L57 FILE 'REGISTRY' ENTERED AT 13:40:57 ON 28 FEB 2006  
1 SEA SUB=L51 SSS SAM L56  
D SCAN  
L58 38 SEA SUB=L51 SSS FUL L56  
SAV L58 SHO160B/A  
L59 17 SEA ABB=ON PLU=ON L58 AND L55  
D SCAN  
L60 0 SEA SUB=L55 SSS SAM L56  
L61 17 SEA SUB=L55 SSS FUL L56  
D SCAN  
SAV L61 SHO160C/A  
L62 38 SEA ABB=ON PLU=ON L61 OR L58  
L63 20 SEA ABB=ON PLU=ON L51 NOT L62  
L64 21 SEA ABB=ON PLU=ON L58 NOT L61  
D L61 CN  
D QUE STAT

FILE 'LREGISTRY' ENTERED AT 13:54:57 ON 28 FEB 2006

FILE 'REGISTRY' ENTERED AT 13:55:20 ON 28 FEB 2006  
E C4H3N4/MF  
L65 5 SEA ABB=ON PLU=ON C4H3N4/MF  
D SCAN

L66 FILE 'LREGISTRY' ENTERED AT 13:56:46 ON 28 FEB 2006  
STR

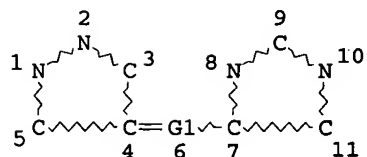
L67 FILE 'REGISTRY' ENTERED AT 13:57:45 ON 28 FEB 2006  
50 SEA SSS SAM L66

L68 FILE 'HCAPLUS' ENTERED AT 13:59:29 ON 28 FEB 2006  
14 SEA ABB=ON PLU=ON L51  
L69 2 SEA ABB=ON PLU=ON L61  
L70 11 SEA ABB=ON PLU=ON L63  
D SCAN L69

L71 5 SEA ABB=ON PLU=ON L64  
 L72 1 SEA ABB=ON PLU=ON L1 AND L68  
 L73 14 SEA ABB=ON PLU=ON (L68 OR L69 OR L70 OR L71 OR L72)

=> => d que stat l73

L1 1 SEA FILE=HCAPLUS ABB=ON PLU=ON US20040010056/PN  
 L49 STR



VAR G1=C/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

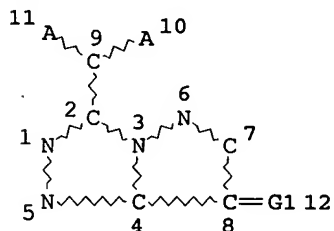
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L51 58 SEA FILE=REGISTRY SSS FUL L49

L52 STR



VAR G1=C/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

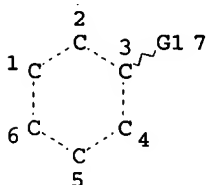
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L55 17 SEA FILE=REGISTRY SUB=L51 SSS FUL L52

L56 STR



VAR G1=N/O/S

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 7

## STEREO ATTRIBUTES: NONE

L58 38 SEA FILE=REGISTRY SUB=L51 SSS FUL L56  
L61 17 SEA FILE=REGISTRY SUB=L55 SSS FUL L56  
L62 38 SEA FILE=REGISTRY ABB=ON PLU=ON L61 OR L58  
L63 20 SEA FILE=REGISTRY ABB=ON PLU=ON L51 NOT L62  
L64 21 SEA FILE=REGISTRY ABB=ON PLU=ON L58 NOT L61  
L68 14 SEA FILE=HCAPLUS ABB=ON PLU=ON L51  
L69 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L61  
L70 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L63  
L71 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L64  
L72 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L1 AND L68  
L73 14 SEA FILE=HCAPLUS ABB=ON PLU=ON (L68 OR L69 OR L70 OR  
L71 OR L72)

=> d 173 1-14 ibib abs hitstr hitind

L73 ANSWER 1 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:299355 HCAPLUS

DOCUMENT NUMBER: 142:363709

TITLE: Method for thermal transfer printing,  
light-resistant materials therefor, and color  
toners, optical recording media, and color  
filters therewith

INVENTOR(S): Takahashi, Mari; Suzuki, Takashi; Ikemizu,  
Hiroshi; Ikesu, Satoru

PATENT ASSIGNEE(S): Konica Minolta Photo Imaging, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 34 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

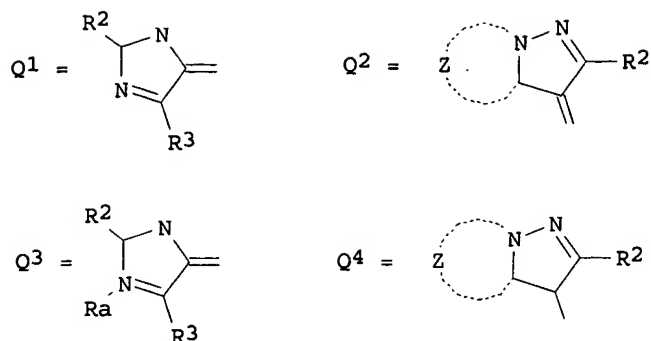
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005088332	A2	20050407	JP 2003-324247	2003 0917

PRIORITY APPLN. INFO.: JP 2003-324247

2003  
0917

OTHER SOURCE(S): MARPAT 142:363709

GI



AB The materials contain dyes X:DB [X = Q1, Q2, etc.; D = N, CR1; B = Q3, Q4, etc.; X and/or B = hydrogen bond-forming group chosen from OH, NHSO2Rb, NHCORb, NHCONHRb, and/or NHCORc; Rb = substituent; Rc = aryl, heterocyclic, branched alkyl; R1-R3, Ra = H, substituent; Z = group forming 5- or 6-membered N-containing heterocyclic ring]. In transfer printing, thermal transfer materials having layers containing the above dyes on supports are laminated with receptors (having dye-receptor layers with metal ion-containing compds. on supports) and heated to give images (of metal chelate dyes prepared by reaction of the dyes and the metal ion-containing compds.).

IT 640303-10-2 849123-49-5

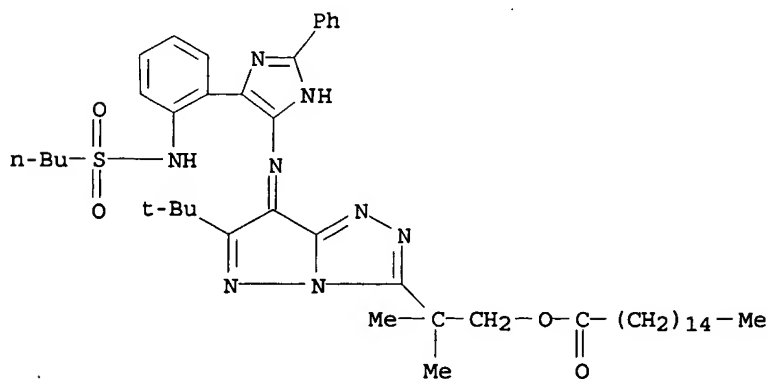
RL: RCT (Reactant); TEM (Technical or engineered material use);

RACT (Reactant or reagent); USES (Uses)

(dyes; thermal transfer printing materials containing light-resistant azomethine dyes forming color toners, optical recording media, and color filters)

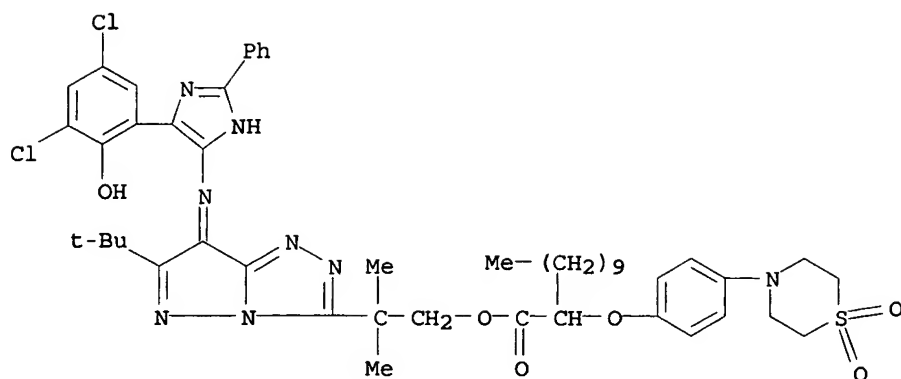
RN 640303-10-2 HCAPLUS

CN Hexadecanoic acid, 2-[7-[[5-[2-[(butylsulfonyl)amino]phenyl]-2-phenyl-1H-imidazol-4-yl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-3-yl]-2-methylpropyl ester (9CI)  
(CA INDEX NAME)



RN 849123-49-5 HCAPLUS

CN Dodecanoic acid, 2-[4-(1,1-dioxido-4-thiomorpholinyl)phenoxy]-, 2-[7-[[5-(3,5-dichloro-2-hydroxyphenyl)-2-phenyl-1H-imidazol-4-yl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-3-yl]-2-methylpropyl ester (9CI) (CA INDEX NAME)



IC ICM B41M005-38  
ICS B41M005-26; C09B023-00; C09B055-00; G02B005-20; G03G009-09;  
G11B007-24  
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and  
Other Reprographic Processes)  
Section cross-reference(s): 41, 73  
IT 640303-10-2 849123-35-9 849123-36-0 849123-37-1  
849123-38-2 849123-39-3 849123-40-6 849123-41-7  
849123-42-8 849123-43-9 849123-44-0 849123-45-1  
849123-46-2 849123-48-4 849123-49-5  
RL: RCT (Reactant); TEM (Technical or engineered material use);  
RACT (Reactant or reagent); USES (Uses)  
(dyes; thermal transfer printing materials containing  
light-resistant azomethine dyes forming color toners, optical  
recording media, and color filters)

L73 ANSWER 2 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:260032 HCAPLUS

DOCUMENT NUMBER: 142:336364

TITLE: Preparation of thiazolidinedione and  
3,4-dihydropyrazol-3-ones as plasminogen  
activator inhibitor-1 inhibitors

INVENTOR(S): Muto, Susumu; Kubo, Asako; Itai, Akiko;  
Sotome, Tomomi; Yamaguchi, Yoichi

PATENT ASSIGNEE(S): Institute of Medicinal Molecular Design. Inc.,  
Japan

SOURCE: PCT Int. Appl., 438 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005026127	A1	20050324	WO 2004-JP13193	2004 0903

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,  
CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG,  
ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,  
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL,  
PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,  
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH,

CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,  
MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI,  
CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

JP 2003-319191

A

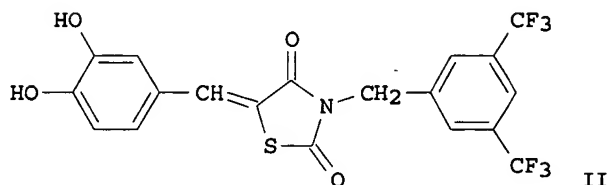
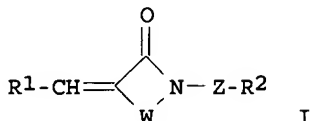
2003

0911

OTHER SOURCE(S):

MARPAT 142:336364

GI



AB A medicine having plasminogen activator inhibitor-1 (PAI-1) inhibiting activity comprises as an active ingredient a compound of the general formula (I) [wherein R1, R2 = (un)substituted aromatic groups; W = a group selected from among linkage groups of formulas -X-C(:X)- and -C(R3):N- (wherein the left side bonds effect linkage with a carbon atom while the right side bonds effect linkage with a nitrogen atom; X = sulfur atom or NH; Y = oxygen or sulfur atom; R3 = a hydrocarbon group, hydroxyl, or carboxyl); Z = a single bond or a linkage group whose main chain has 1 to 3 atoms] or a salt thereof. This medicine is useful for the prevention and/or treatment of diseases caused by increased activity of PAI-1 or diseases caused by  $\geq 2$  of unusual states selected from thrombogenesis, fibrosis, organ fat accumulation, cell proliferation, angiogenesis, deposition or reconstruction of outer cellular matrix, and cell migration or metastasis. Thus, a mixture of 0.15 mmol 3,4-dihydroxybenzaldehyde, 0.15 mmol 3-[3,5-bis(trifluoromethyl)benzyl]thiazolidine-2,4-dione, and 4 mL toluene was treated with two drops of ACOH and two drops of piperidine and heated at 90° for 40 min to give 5-(3,4-dihydroxybenzylidene)-3-[3,5-bis(trifluoromethyl)benzyl]thiazolidine-2,4-dione (II). II at 25  $\mu$ M in vitro inhibited >99% inactivation of 2-chain tissue-type plasminogen activator (tPA) by human PAI-1.

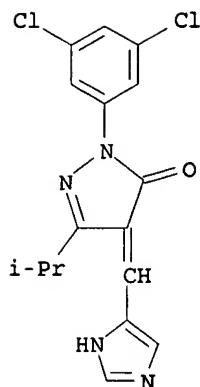
IT 848605-75-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of thiazolidinedione and dihydropyrazolones as plasminogen activator inhibitor-1 inhibitors)

RN 848605-75-4 HCAPLUS

CN 3H-Pyrazol-3-one, 2-(3,5-dichlorophenyl)-2,4-dihydro-4-(1H-imidazol-4-ylmethylene)-5-(1-methylethyl)- (9CI) (CA INDEX NAME)



IC ICM C07D231-22  
 ICS C07D231-26; C07D231-36; C07D233-96; C07D277-34; C07D277-36;  
 C07D401-06; C07D401-10; C07D401-12; C07D403-06; C07D409-12;  
 C07D413-06; A61K031-4152; A61K031-4155; A61K031-4166;  
 A61K031-427; A61K031-426; A61K031-4439; A61K031-4245;  
 A61P007-02

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 1

IT	848604-32-0P	848604-33-1P	848604-34-2P	848604-35-3P
	848604-36-4P	848604-37-5P	848604-39-7P	848604-40-0P
	848604-41-1P	848604-42-2P	848604-43-3P	848604-44-4P
	848604-45-5P	848604-46-6P	848604-47-7P	848604-48-8P
	848604-49-9P	848604-50-2P	848604-51-3P	848604-52-4P
	848604-53-5P	848604-54-6P	848604-55-7P	848604-56-8P
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	848605-77-6P	848605-78-7P	848605-79-8P	848605-80-1P
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	848605-85-6P	848605-86-7P	848605-87-8P	848605-88-9P
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	848606-01-9P	848606-02-0P	848606-03-1P	848606-05-3P
	848606-06-4P	848606-07-5P	848606-08-6P	848606-09-7P



848606-10-0P 848606-11-1P 848606-12-2P 848606-13-3P  
848606-14-4P 848606-15-5P 848606-16-6P 848606-17-7P  
848606-18-8P 848606-19-9P 848606-20-2P 848606-21-3P  
848606-22-4P 848606-23-5P 848606-24-6P 848606-25-7P  
848606-26-8P 848606-27-9P 848606-28-0P 848606-29-1P  
848606-30-4P 848606-31-5P 848606-32-6P 848606-33-7P  
848609-62-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);  
THU (Therapeutic use); BIOL (Biological study); PREP  
(Preparation); USES (Uses)

(preparation of thiazolidinedione and dihydropyrazolones as  
plasminogen activator inhibitor-1 inhibitors)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE  
FOR THIS RECORD. ALL CITATIONS AVAILABLE  
IN THE RE FORMAT

L73 ANSWER 3 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:842264 HCAPLUS

DOCUMENT NUMBER: 141:351531

TITLE: Azo dye compounds for black coloring  
compositions, ink-jet inks and thermal  
transfer printing materials using them and  
method of use

INVENTOR(S): Suzuki, Takashi; Ikesu, Satoru; Takahashi,  
Mari; Ikemizu, Hiroshi

PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 149 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004285223	A2	20041014	JP 2003-79519	2003 0324

PRIORITY APPLN. INFO.: JP 2003-79519

2003  
0324

OTHER SOURCE(S): MARPAT 141:351531

AB The dye compds. having deep neutral black tone, are selected from  
diazo compds. having unique conjugated heterocyclic ring units.

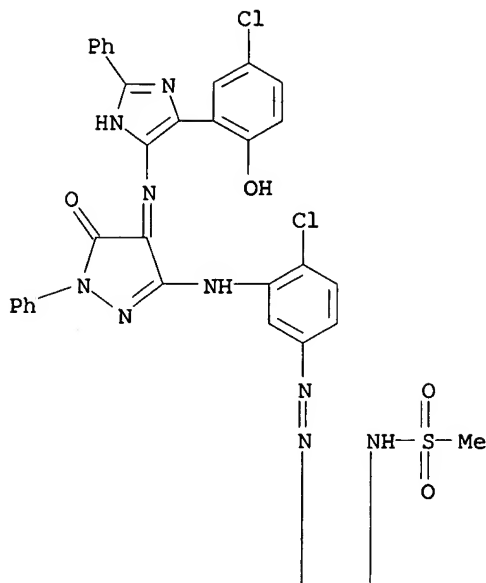
IT 774473-62-0

RL: TEM (Technical or engineered material use); USES (Uses)  
(manufacture and use of azo dye compds. for ink-jet inks and thermal  
transfer printing materials with deep black tone)

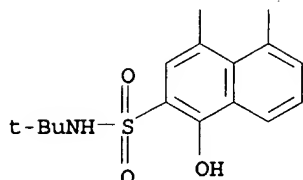
RN 774473-62-0 HCAPLUS

CN 2-Naphthalenesulfonamide, 4-[[[4-chloro-3-[[[4-[[[5-(5-chloro-2-  
hydroxyphenyl)-2-phenyl-1H-imidazol-4-yl]imino]-4,5-dihydro-5-oxo-  
1-phenyl-1H-pyrazol-3-yl]amino]phenyl]azo]-N-(1,1-dimethylethyl)-1-  
hydroxy-5-[(methylsulfonyl)amino]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



IC ICM C09B031-068  
 ICS B41J002-01; B41M005-00; B41M005-30; B41M005-38; C07D231-52;  
 C07D233-88; C07D401-12; C09B056-02; C09D011-00  
 CC 42-12 (Coatings, Inks, and Related Products)  
 Section cross-reference(s): 41, 74  
 IT 774473-45-9 774473-46-0 774473-47-1 774473-48-2  
 774473-49-3 774473-50-6 774473-51-7 774473-52-8  
 774473-53-9 774473-54-0 774473-55-1 774473-56-2  
 774473-57-3 774473-58-4 774473-59-5 774473-60-8  
 774473-61-9 774473-62-0 774473-63-1 774473-64-2  
 774473-65-3 774473-66-4 774473-67-5 774473-68-6  
 774473-69-7 774473-70-0 774473-71-1 774473-72-2  
 774473-73-3  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (manufacture and use of azo dye compds. for ink-jet inks and thermal  
 transfer printing materials with deep black tone)

L73 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:837581 HCAPLUS

DOCUMENT NUMBER: 141:340435

TITLE: Azo, azomethine, or methine dyes, compositions  
 and storage-stable inks containing them,  
 ink-jet recording method using them, and  
 thermal recording materials containing them

INVENTOR(S): Suzuki, Takashi; Ikesu, Satoru; Takahashi,  
 Mari; Ikemizu, Hiroshi

PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 84 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

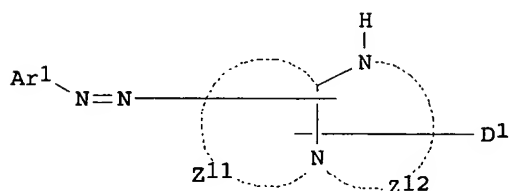
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004285222	A2	20041014	JP 2003-79518	2003 0324

PRIORITY APPLN. INFO.:

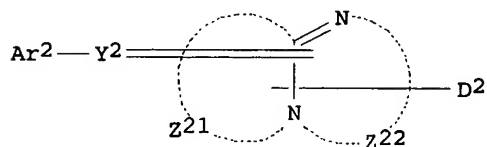
JP 2003-79518

2003  
0324

OTHER SOURCE(S): MARPAT 141:340435  
 GI



I



II

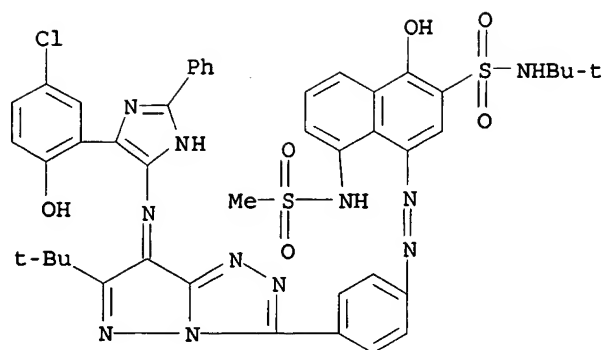
AB The dyes are depicted as I (Ar1 = aryl, heterocyclic group; Z11, Z12 = 5-6-membered N-containing heterocyclic group; D1 = color-developing group) or II (Ar2 = same as Ar1; Y2 = N:, CH:; Z21, Z22 = same as Z11; D2 = same as D1). The thermal recording materials (e.g., ribbons) show good dye transferability and light resistance.

IT 773878-03-8

RL: TEM (Technical or engineered material use); USES (Uses)  
 (dye; azo, azomethine, or methine dyes for storage-stable  
 ink-jet inks or thermal recording materials with good color  
 reproducibility and light resistance)

RN 773878-03-8 HCAPLUS

CN 2-Naphthalenesulfonamide, 4-[[4-[7-[[5-(5-chloro-2-hydroxyphenyl)-  
 2-phenyl-1H-imidazol-4-yl]imino]-6-(1,1-dimethylethyl)-7H-  
 pyrazolo[5,1-c]-1,2,4-triazol-3-yl]phenyl]azo]-N-(1,1-  
 dimethylethyl)-1-hydroxy-5-[(methylsulfonyl)amino]- (9CI) (CA  
 INDEX NAME)



IC ICM C09B031-08  
 ICS B41J002-01; B41M005-00; C07D487-04; C09B067-20; C09D011-00;  
 C09D017-00  
 CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and  
 Other Reprographic Processes)  
 Section cross-reference(s): 41, 42  
 IT 773877-98-8 773878-00-5 773878-01-6 773878-02-7  
 773878-03-8 773878-04-9 773878-05-0 773878-06-1  
 773878-07-2 773878-08-3 773878-09-4 773878-10-7  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (dye; azo, azomethine, or methine dyes for storage-stable  
 ink-jet inks or thermal recording materials with good color  
 reproducibility and light resistance)

L73 ANSWER 5 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:5200 HCAPLUS

DOCUMENT NUMBER: 140:78637

TITLE: Colored particle dispersion, ink jet ink, dye,  
 and ink jet recording method

INVENTOR(S): Takahashi, Mari; Ikesu, Satoru; Suzuki,  
 Takatugu; Iwamoto, Kyoko

PATENT ASSIGNEE(S): Konica Corporation, Japan

SOURCE: Eur. Pat. Appl., 88 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent  
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1375611	A2	20040102	EP 2003-14187	2003 0624
EP 1375611	A3	20050615		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2004217884	A2	20040805	JP 2003-121442	2003 0425
US 2004010056	A1	20040115	US 2003-600160	2003 0620

PRIORITY APPLN. INFO.: <--  
 JP 2002-189751 A  
 2002  
 0628

JP 2002-333321

A

2002

1118

OTHER SOURCE(S): MARPAT 140:78637

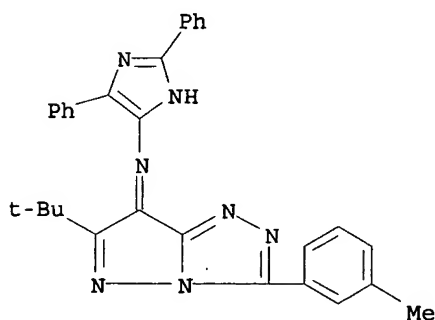
AB A colored dispersion comprises a polymer and a dye X:DB, wherein X is a heterocyclic or heteroacyclic group, D is a nitrogen atom or :CR1, R1 being a hydrogen atom or a substituent; and B is a heterocyclic or heteroacyclic group. A dispersion contained polyvinyl butyral and a dye.

IT 260800-61-1 640299-45-2 640300-24-9  
640300-31-8 640300-53-4 640300-59-0  
640300-93-2 640301-12-8 640301-23-1  
640301-36-6 640301-40-2 640301-45-7  
640301-64-0 640302-69-8 640302-81-4  
640302-94-9 640303-00-0 640303-10-2  
640303-15-7 640303-20-4 640303-25-9  
640303-82-8 640304-71-8

RL: TEM (Technical or engineered material use); USES (Uses)  
(dye, colored particle dispersion, ink jet ink, dye, and ink  
jet recording method)

RN 260800-61-1 HCAPLUS

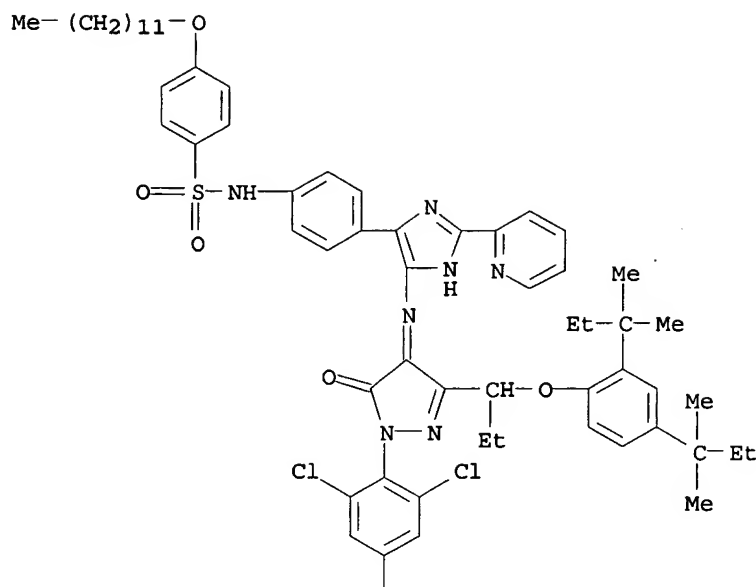
CN 1H-Imidazol-4-amine, N-[6-(1,1-dimethylethyl)-3-(3-methylphenyl)-  
7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]-2,5-diphenyl- (9CI)  
(CA INDEX NAME)



RN 640299-45-2 HCAPLUS

CN Benzenesulfonamide, N-[4-[5-[[3-[1-[2,4-bis(1,1-  
dimethylpropyl)phenoxy]propyl]-1,5-dihydro-5-oxo-1-(2,4,6-  
trichlorophenyl)-4H-pyrazol-4-ylidene]amino]-2-(2-pyridinyl)-1H-  
imidazol-4-yl]phenyl]-4-(dodecyloxy)- (9CI) (CA INDEX NAME)

PAGE 1-A

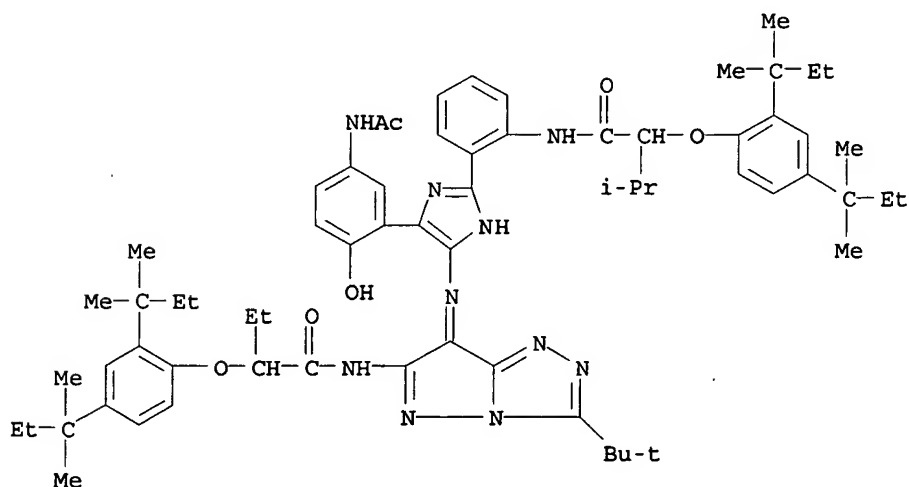


PAGE 2-A



RN 640300-24-9 HCAPLUS

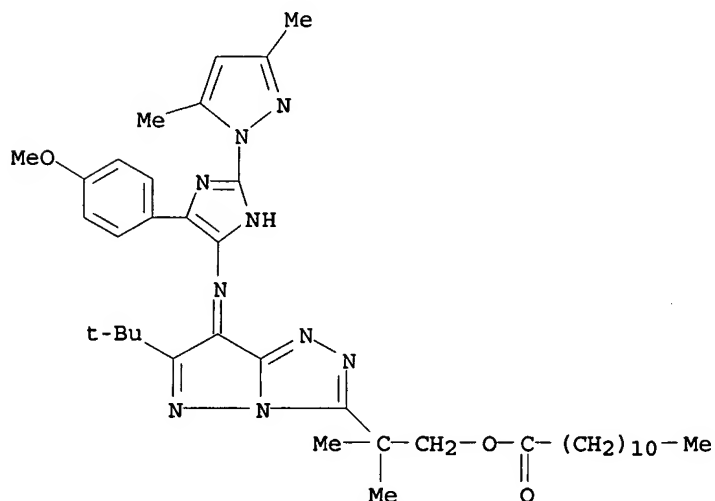
CN Butanamide, N-[2-[4-[5-(acetylamino)-2-hydroxyphenyl]-5-[[6-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-3-(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]amino]-1H-imidazol-2-yl]phenyl]-2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-3-methyl- (9CI) (CA INDEX NAME)



RN 640300-31-8 HCAPLUS

CN Dodecanoic acid, 2-[6-(1,1-dimethylethyl)-7-[[2-(3,5-dimethyl-1H-

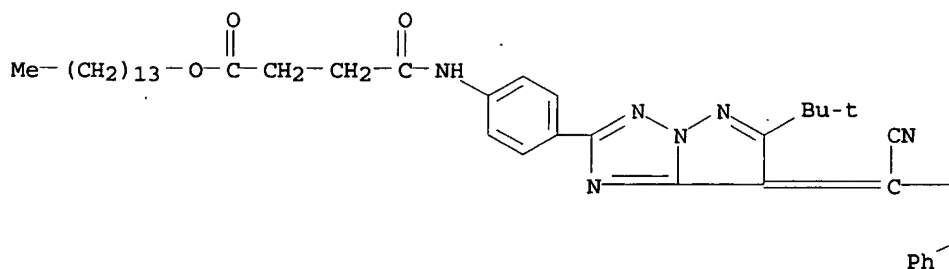
pyrazol-1-yl)-5-(4-methoxyphenyl)-1H-imidazol-4-yl]imino]-7H-pyrazolo[5,1-c]-1,2,4-triazol-3-yl]-2-methylpropyl ester (9CI)  
(CA INDEX NAME)



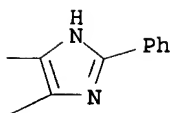
RN 640300-53-4 HCAPLUS

CN Butanoic acid, 4-[[4-[7-[cyano(2,5-diphenyl-1H-imidazol-4-yl)methylene]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI)  
(CA INDEX NAME)

PAGE 1-A



PAGE 1-B

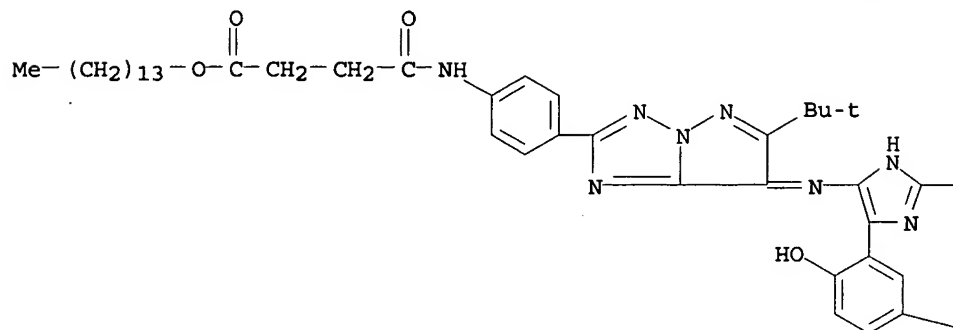


RN 640300-59-0 HCAPLUS

CN Butanoic acid, 4-[[4-[7-[[5-[5-(acetamino)-2-hydroxyphenyl]-2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-3-methyl-1-oxobutyl]amino]phenyl]-1H-imidazol-4-yl]imino]-6-(1,1-

dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-  
4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

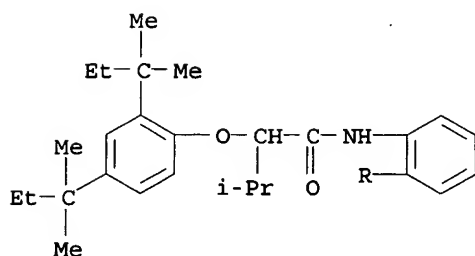


PAGE 1-B

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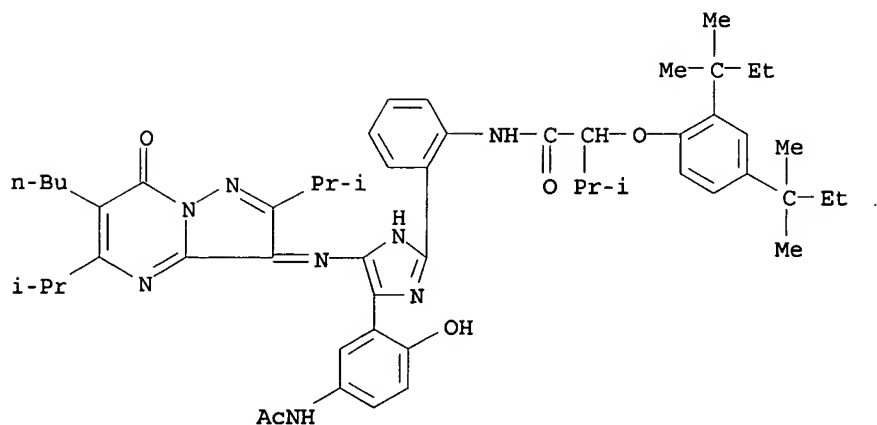
PAGE 2-A



RN 640300-93-2 HCAPLUS

CN Butanamide, N-[2-[4-[5-(acetylamino)-2-hydroxyphenyl]-5-[[6-butyl-  
2,5-bis(1-methylethyl)-7-oxopyrazolo[1,5-a]pyrimidin-3(7H)-  
ylidene]amino]-1H-imidazol-2-yl]phenyl]-2-[2,4-bis(1,1-  
dimethylpropyl)phenoxy]-3-methyl- (9CI) (CA INDEX NAME)

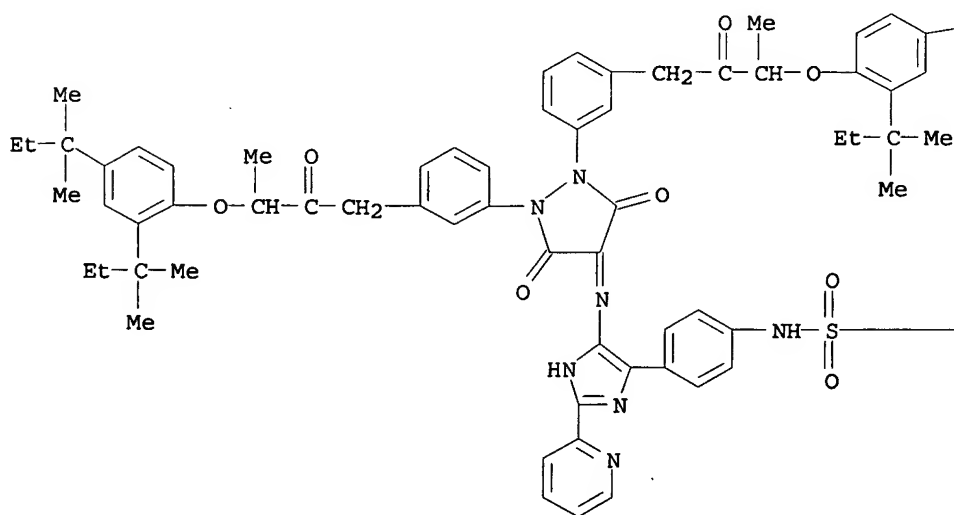




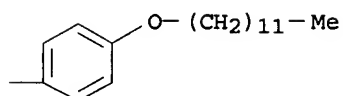
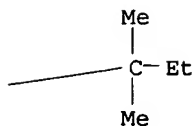
RN 640301-12-8 HCAPLUS

CN Benzenesulfonamide, N-[4-[5-[[[1,2-bis[3-[3-[2,4-bis(1,1-dimethylpropyl)phenoxy]-2-oxobutyl]phenyl]-3,5-dioxo-4-pyrazolidinylidene]amino]-2-(2-pyridinyl)-1H-imidazol-4-yl]phenyl]-4-(dodecyloxy)-(9CI) (CA INDEX NAME)

PAGE 1-A

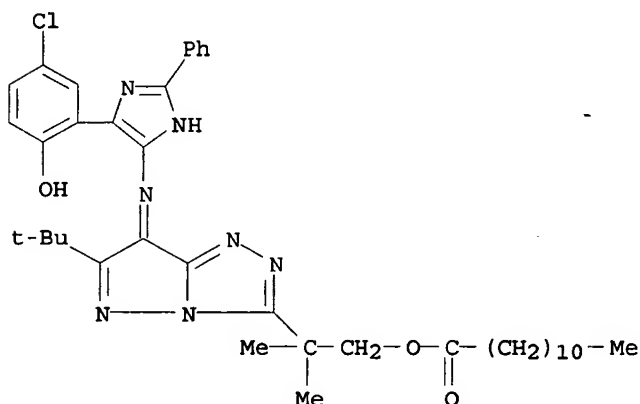


PAGE 1-B



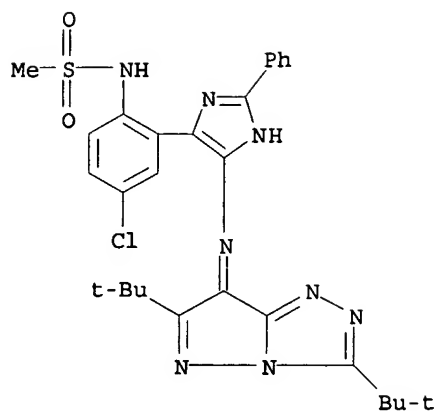
RN 640301-23-1 HCAPLUS

CN Dodecanoic acid, 2-[7-[[5-(5-chloro-2-hydroxyphenyl)-2-phenyl-1H-imidazol-4-yl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-3-yl]-2-methylpropyl ester (9CI) (CA INDEX NAME)



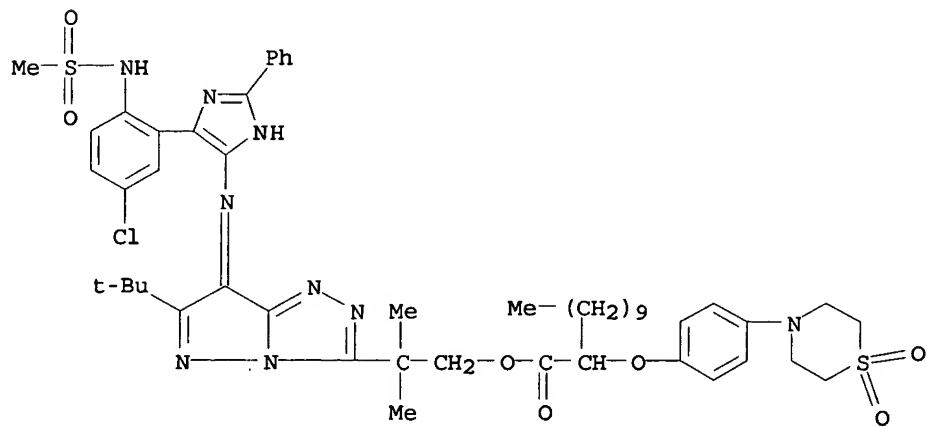
RN 640301-36-6 HCAPLUS

CN Methanesulfonamide, N-[2-[5-[[[3,6-bis(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]amino]-2-phenyl-1H-imidazol-4-yl]-4-chlorophenyl]- (9CI) (CA INDEX NAME)



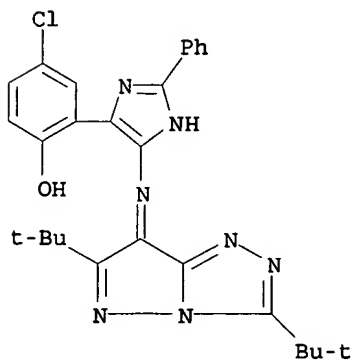
RN 640301-40-2 HCAPLUS

CN Dodecanoic acid, 2-[4-(1,1-dioxido-4-thiomorpholinyl)phenoxy]-, 2-[7-[[5-[5-chloro-2-[(methylsulfonyl)amino]phenyl]-2-phenyl-1H-imidazol-4-yl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-3-yl]-2-methylpropyl ester (9CI) (CA INDEX NAME)



RN 640301-45-7 HCAPLUS

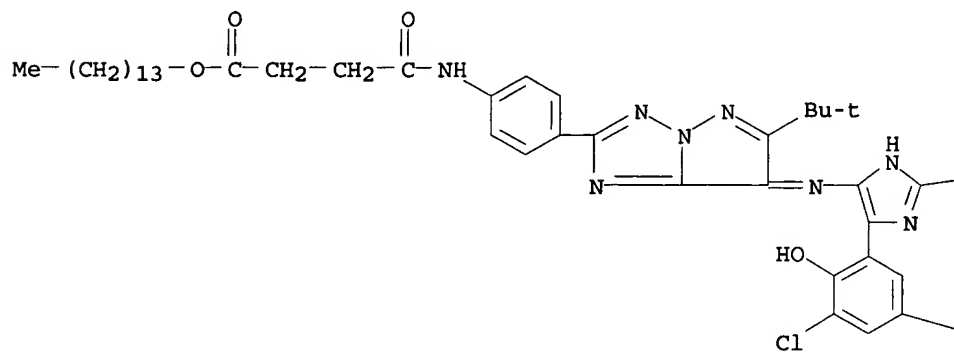
CN Phenol, 2-[5-[[3,6-bis(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]amino]-2-phenyl-1H-imidazol-4-yl]-4-chloro- (9CI) (CA INDEX NAME)



RN 640301-64-0 HCAPLUS

CN Butanoic acid, 4-[[4-[7-[[5-(3,5-dichloro-2-hydroxyphenyl)-2-phenyl-1H-imidazol-4-yl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



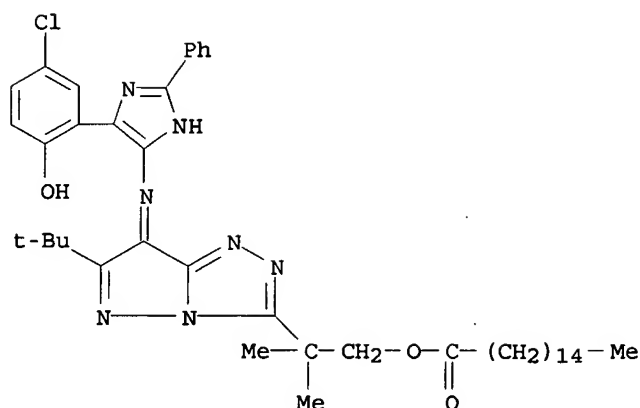
PAGE 1-B

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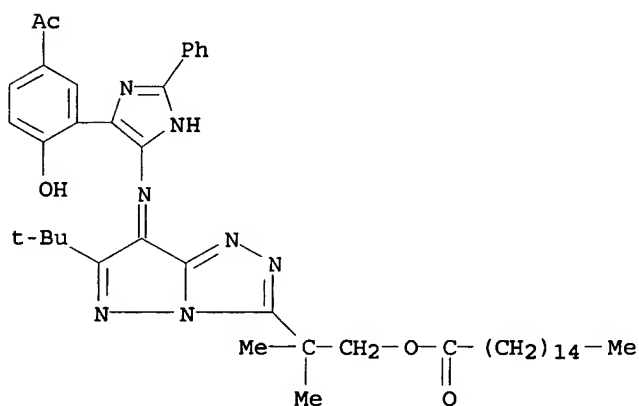
RN 640302-69-8 HCAPLUS

CN Hexadecanoic acid, 2-[7-[[5-(5-chloro-2-hydroxyphenyl)-2-phenyl-1H-imidazol-4-yl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-3-yl]-2-methylpropyl ester (9CI) (CA INDEX NAME)



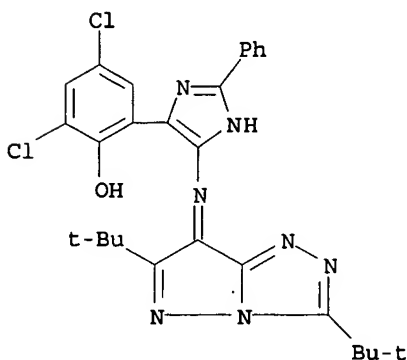
RN 640302-81-4 HCAPLUS

CN Hexadecanoic acid, 2-[7-[[5-(5-acetyl-2-hydroxyphenyl)-2-phenyl-1H-imidazol-4-yl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-3-yl]-2-methylpropyl ester (9CI) (CA INDEX NAME)



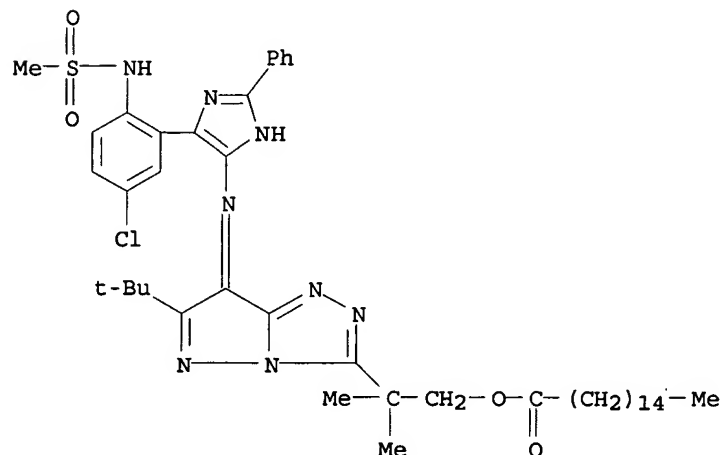
RN 640302-94-9 HCAPLUS

CN Phenol, 2-[5-[[3,6-bis(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]amino]-2-phenyl-1H-imidazol-4-yl]-4,6-dichloro- (9CI) (CA INDEX NAME)



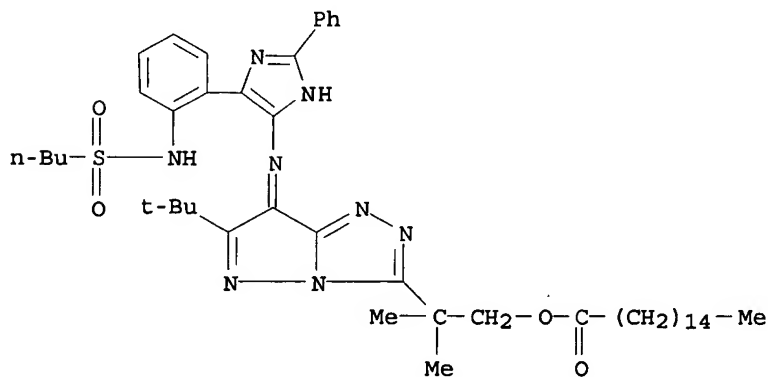
RN 640303-00-0 HCAPLUS

CN Hexadecanoic acid, 2-[7-[[5-[5-chloro-2-[(methylsulfonyl)amino]phenyl]-2-phenyl-1H-imidazol-4-yl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-3-yl]-2-methylpropyl ester (9CI) (CA INDEX NAME)



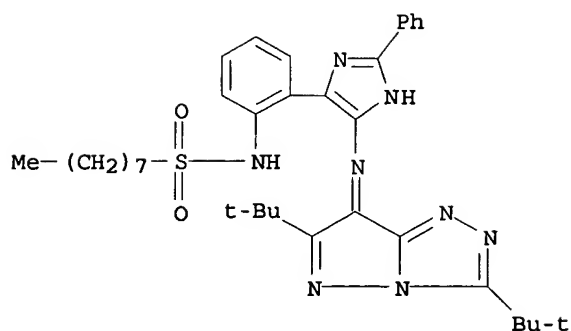
RN 640303-10-2 HCAPLUS

CN Hexadecanoic acid, 2-[7-[[5-[2-[(butylsulfonyl)amino]phenyl]-2-phenyl-1H-imidazol-4-yl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-3-yl]-2-methylpropyl ester (9CI) (CA INDEX NAME)



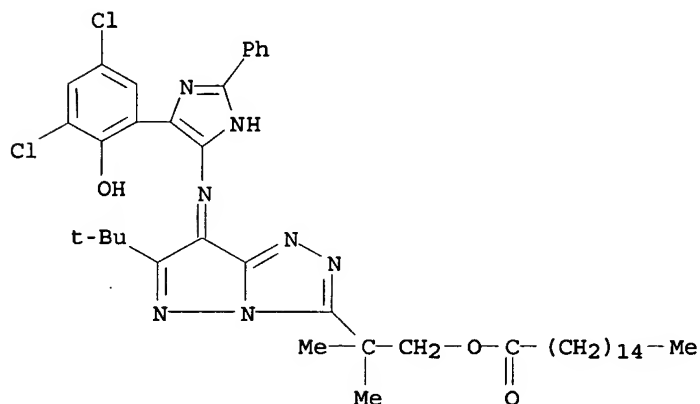
RN 640303-15-7 HCAPLUS

CN 1-Octanesulfonamide, N-[2-[5-[[3,6-bis(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]amino]-2-phenyl-1H-imidazol-4-yl]phenyl]- (9CI) (CA INDEX NAME)



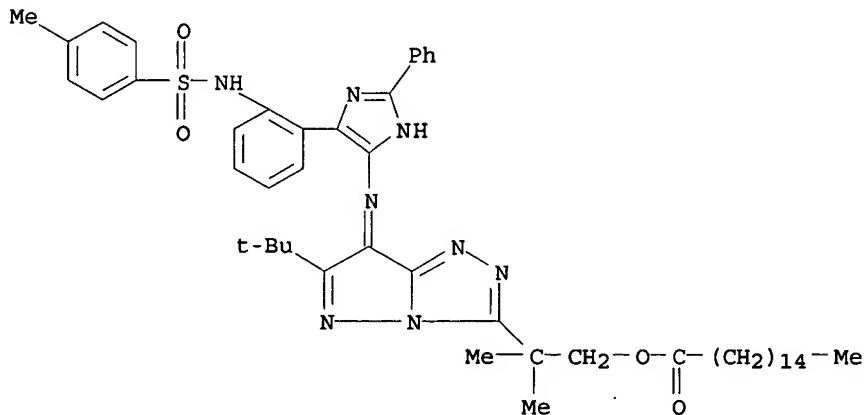
RN 640303-20-4 HCAPLUS

CN Hexadecanoic acid, 2-[7-[[5-(3,5-dichloro-2-hydroxyphenyl)-2-phenyl-1H-imidazol-4-yl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-3-yl]-2-methylpropyl ester (9CI)  
(CA INDEX NAME)



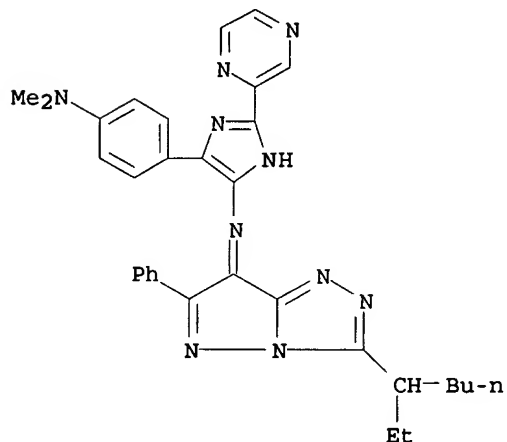
RN 640303-25-9 HCAPLUS

CN Hexadecanoic acid, 2-[6-(1,1-dimethylethyl)-7-[[5-[2-[[4-methylphenyl)sulfonyl]amino]phenyl]-2-phenyl-1H-imidazol-4-yl]imino]-7H-pyrazolo[5,1-c]-1,2,4-triazol-3-yl]-2-methylpropyl ester (9CI) (CA INDEX NAME)



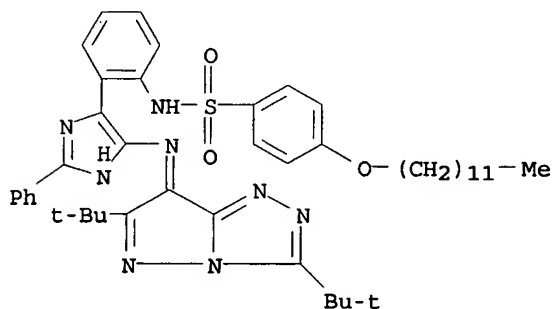
RN 640303-82-8 HCAPLUS

CN 1H-Imidazol-4-amine, 5-[4-(dimethylamino)phenyl]-N-[3-(1-ethylpentyl)-6-phenyl-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]-2-pyrazinyl- (9CI) (CA INDEX NAME)



RN 640304-71-8 HCAPLUS

CN Benzenesulfonamide, N-[2-[5-[[3,6-bis(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]amino]-2-phenyl-1H-imidazol-4-yl]phenyl]-4-(dodecyloxy)- (9CI) (CA INDEX NAME)



IC ICM C09D011-00

ICS C09B055-00; C09B023-00; C08K005-00; C08K005-34

CC 42-12 (Coatings, Inks, and Related Products)

Section cross-reference(s): 41

IT 260800-61-1 640299-45-2 640299-48-5  
 640299-54-3 640299-63-4 640299-70-3 640299-76-9  
 640299-84-9 640299-96-3 640300-02-3 640300-09-0  
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 640304-42-3 640304-47-8 640304-52-5 640304-65-0  
 640304-71-8 641610-30-2

RL: TEM (Technical or engineered material use); USES (Uses)  
 (dye; colored particle dispersion, ink jet ink, dye, and ink  
 jet recording method)

L73 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:977640 HCAPLUS

DOCUMENT NUMBER: 138:55961

TITLE: Preparation of alkylidene pyrazolidinediones  
 for treating or preventing disorders mediated  
 by insulin resistance or hyperglycemia

INVENTOR(S): Bombrun, Agnes; Rueckle, Thomas; Swinnen,  
 Dominique; Gonzalez, Jerome; Church, Dennis

PATENT ASSIGNEE(S): Applied Research Systems ARS Holding N.V.,  
 Neth. Antilles

SOURCE: PCT Int. Appl., 87 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002102359	A2	20021227	WO 2002-EP6627	2002 0614
WO 2002102359	A3	20030828		
W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW	
RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	
CA 2449212	AA	20021227	CA 2002-2449212	2002 0614
EP 1399156	A2	20040324	EP 2002-735418	2002 0614
R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR	
JP 2004534072	T2	20041111	JP 2003-504946	2002 0614
US 2004220188	A1	20041104	US 2004-481240	2004 0521
PRIORITY APPLN. INFO.:			EP 2001-113633	A 2001 0618

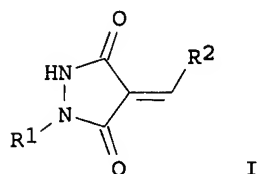
WO 2002-EP6627

W

2002

0614

OTHER SOURCE(S): MARPAT 138:55961  
GI



AB The title compds. [I; R1, R2 = aryl, heteroaryl], useful for the treatment and/or prevention of diabetes type I and/or II, impaired glucose tolerance, insulin resistance, hyperglycemia, obesity and polycystic ovary syndrome (PCOS), were prepared and formulated. In particular, the present invention is related to the use of compds. I to modulate, notably to inhibit the activity of PTPs, in particular PTP1B, TC-PTP, SHP and GLEPP-1. Thus, reacting 1-(4-iodophenyl)pyrazolidine-3,5-dione (preparation given) with 5-bromofuran-2-carbaldehyde afforded 58% I [R1 = 4-IC6H4; R2 = 5-bromofuran-2-yl] which showed IC50 of 40 nM against PTP1B.

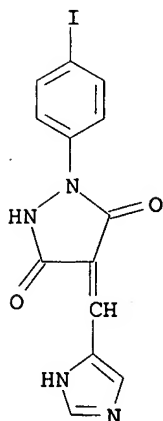
IT 479242-82-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of alkylidene pyrazolidinediones as PTPs inhibitors for treating or preventing disorders mediated by insulin resistance or hyperglycemia)

RN 479242-82-5 HCAPLUS

CN 3,5-Pyrazolidinedione, 4-(1H-imidazol-4-ylmethylene)-1-(4-iodophenyl)- (9CI) (CA INDEX NAME)



IC ICM A61K031-00

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 1, 63

IT	329199-12-4P	331667-39-1P	331667-40-4P	331667-41-5P
	331667-51-7P	331667-53-9P	331667-59-5P	337504-47-9P
	345323-01-5P	355829-54-8P	433707-40-5P	479241-21-9P
	479241-24-2P	479241-26-4P	479241-35-5P	479241-41-3P

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479243-07-7P	479243-09-9P	479243-11-3P	479243-13-5P
479243-15-7P	479243-17-9P		

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(preparation of alkylidene pyrazolidinediones as PTPs inhibitors for treating or preventing disorders mediated by insulin resistance or hyperglycemia)

L73 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:338524 HCAPLUS

DOCUMENT NUMBER: 134:340503

TITLE: Preparation of heterocyclylpyrazolinones as protein kinase inhibitors

INVENTOR(S): Singh, Jasbir; Tripathy, Rabindranath

PATENT ASSIGNEE(S): Cephalon, Inc., USA

SOURCE: PCT Int. Appl., 138 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

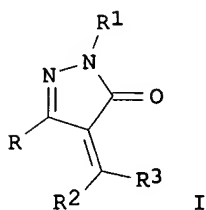
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001032653	A1	20010510	WO 2000-US30226	2000 1101
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6455525	B1	20020924	US 2000-702191	2000 1031
CA 2389807	AA	20010510	CA 2000-2389807	2000 1101
EP 1226141	A1	20020731	EP 2000-978338	

				2000 1101
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
TR 200201225	T2	20020821	TR 2002-200201225	
				2000 1101
JP 2003513091	T2	20030408	JP 2001-534804	
				2000 1101
BR 2000015568	A	20030610	BR 2000-15568	
				2000 1101
NO 2002002095	A	20020611	NO 2002-2095	
				2002 0502
ZA 2002003492	A	20030804	ZA 2002-3492	
				2002 0502
BG 106771	A	20030331	BG 2002-106771	
				2002 0604
US 2003162775	A1	20030828	US 2002-225670	
				2002 0822
US 6831075	B2	20041214		
PRIORITY APPLN. INFO.:			US 1999-163377P	P 1999 1104
			US 2000-702191	A 2000 1031
			WO 2000-US30226	W 2000 1101

OTHER SOURCE(S): MARPAT 134:340503  
GI



AB Title compds. e.g., I [R = (un)substituted heterocyclyl or -heteroaryl; R1 = H, (un)substituted alkyl, NH2, acyl, etc.; R2, R3 = H, (un)substituted alkyl, acyl, heterocyclyl, etc.] were prepared Thus, 2-acetylthiazole was condensed with CO(OEt)2 and the product cyclocondensed with H2NNH2 to give 3-(2-thiazolyl)-2-pyrazolin-5-one which was condensed with indole-3-carboxaldehyde to give I (R = 2-thiazolyl, R1 = R2 = H, R3 = 3-indolyl). Data for biol. activity of I were given.

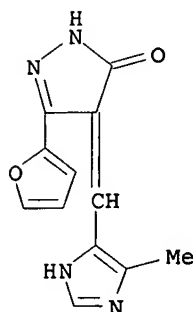
IT 338753-87-0P 338755-51-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heterocyclpyrazolinones as protein kinase inhibitors)

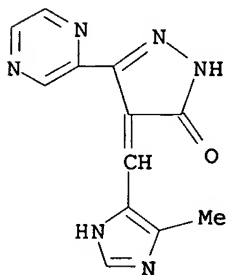
RN 338753-87-0 HCAPLUS

CN 3H-Pyrazol-3-one, 5-(2-furanyl)-2,4-dihydro-4-[(5-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



RN 338755-51-4 HCAPLUS

CN 3H-Pyrazol-3-one, 2,4-dihydro-4-[(5-methyl-1H-imidazol-4-yl)methylene]-5-pyrazinyl- (9CI) (CA INDEX NAME)



IC ICM C07D405-14

ICS C07D401-14; C07D405-04; C07D417-14; C07D409-14; C07D403-14; A61K031-4152; A61K031-427; A61K031-4439; A61K031-497; A61P017-06; A61P025-28; A61P031-18; A61P037-06

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 1

IT	324548-38-1P	324548-87-0P	324548-95-0P	324548-98-3P
	324549-00-0P	324550-75-6P	324550-91-6P	324553-91-5P
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338758-26-2P

RL: BAC (Biological activity or effector, except adverse); BSU  
(Biological study, unclassified); SPN (Synthetic preparation); THU  
(Therapeutic use); BIOL (Biological study); PREP (Preparation);  
USES (Uses)  
(preparation of heterocyclpyrazolinones as protein kinase  
inhibitors)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE  
FOR THIS RECORD. ALL CITATIONS AVAILABLE  
IN THE RE FORMAT

L73 ANSWER 8 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:101128 HCAPLUS

DOCUMENT NUMBER: 134:147599

TITLE: Preparation of 2-pyrazolin-5-ones as  
inhibitors of serine/threonine and tyrosine  
kinase activity

INVENTOR(S): Moset, Marina M.; Berlanga, Jose Maria  
Castellano; Fernandez, Isabel F.; Calderwood,  
David J.; Rafferty, Paul; Arnold, Lee

PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 226 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

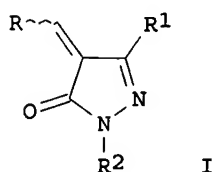
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001009121	A2	20010208	WO 2000-US20628	
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WO 2001009121	A3	20020502		
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ZA 2002000477	A	20030422	ZA 2002-477	2002 0118
NO 2002000487	A	20020312	NO 2002-487	2002 0130
BG 106392	A	20021229	BG 2002-106392	2002 0206
PRIORITY APPLN. INFO.:			US 1999-146563P	P 1999 0730
			WO 2000-US20628	W 2000 0728

OTHER SOURCE(S): MARPAT 134:147599  
GI



AB The title compds. [I; R = (un)substituted alkyl, aryl, cycloalkyl, etc.; R1 = H, AZ; R2 = H, (un)substituted alkyl, aryl, etc.; A = (CH2)n, (CH2)nNH, (CH2)nO, etc.; Z = H, alkyl, aralkyl, etc.] which are inhibitors of serine/threonine and tyrosine kinase activity, were prepared and formulated. Thus, reacting 3-cyclopropyl-2-pyrazolin-5-one with 4,5-dimethylpyrrole-2-carboxaldehyde in the presence of piperidine in EtOH afforded 30% I [R = 4,5-dimethylpyrrol-2-yl; R1 = cyclopropyl]. All exemplified compds. I inhibit KDR kinase at 50  $\mu$ M and some of them also significantly inhibit other PTKs such as lck at  $\leq$  50  $\mu$ M, and cdc2 at  $<$  50  $\mu$ M. Several of the tyrosine kinases, whose activity is inhibited by the compds. I are involved in angiogenic processes. Thus, the compds. I can ameliorate disease states where angiogenesis or endothelial cell hyperproliferation is a factor. These compds. I can be used to treat cancer and hyperproliferative disorders.

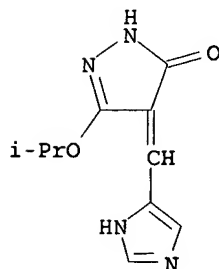
IT 324551-53-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 2-pyrazolin-5-ones as inhibitors of serine/threonine and tyrosine kinase activity)

RN 324551-53-3 HCAPLUS

CN 3H-Pyrazol-3-one, 2,4-dihydro-4-(1H-imidazol-4-ylmethylene)-5-(1-methylethoxy)- (9CI) (CA INDEX NAME)



IC ICM C07D403-00

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 1, 63

IT	324550-16-5P	324550-17-6P	324550-19-8P	324550-21-2P
	324550-22-3P	324550-24-5P	324550-26-7P	324550-28-9P
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 324552-96-7P 324553-00-6P 324553-04-0P 324553-08-4P  
 324553-12-0P

RL: BAC (Biological activity or effector, except adverse); BSU  
 (Biological study, unclassified); SPN (Synthetic preparation); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation);  
 USES (Uses)

(preparation of 2-pyrazolin-5-ones as inhibitors of serine/threonine  
 and tyrosine kinase activity)

L73 ANSWER 9 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:181089 HCAPLUS

DOCUMENT NUMBER: 132:209146

TITLE: Lightfast coloring agents and image recording  
 materials, thermal transfer materials, and  
 ink-jet recording fluids containing them

INVENTOR(S): Oya, Hidenobu; Kaneko, Manabu; Kida, Shuji

PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 46 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000080295	A2	20000321	JP 1999-143284	1999

PRIORITY APPLN. INFO.: JP 1998-193794 A 0524  
1998  
0624

OTHER SOURCE(S): MARPAT 132:209146

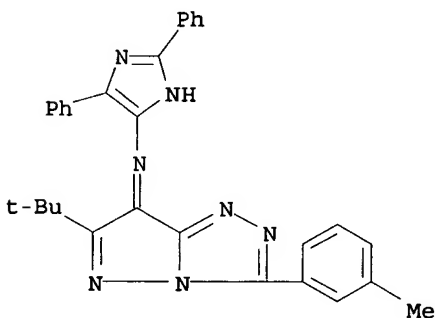
AB The coloring agents represented by AN:B [I; B = coupler component binding to N at an active site; A = N-containing heterocyclic or heteropolycyclic ring, where  $\geq 1$  N in the ring is placed at an end of conjugation to form conjugated chain with N:B; except A being amino-substituted hetero ring and B being (un)substituted phenol] are prepared Other coloring agents AC(R1):B (R1 = H, substituent), etc., are also claimed. Thus, a MEK-based thermal transfer ink containing I [A = 1-tert-butyl-3-pyrrolyl; B = C(OCMe<sub>3</sub>)CONH-o-C<sub>6</sub>H<sub>4</sub>OMe] and polyvinyl butyral (BL 1) formed a light-resistant yellow image. Syntheses of several colorants were exemplified.

IT 260800-61-1P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(lightfast coloring agents for image recording materials, thermal transfer materials, and ink-jet recording fluids)

RN 260800-61-1 HCAPLUS

CN 1H-Imidazol-4-amine, N-[6-(1,1-dimethylethyl)-3-(3-methylphenyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]-2,5-diphenyl- (9CI)  
(CA INDEX NAME)



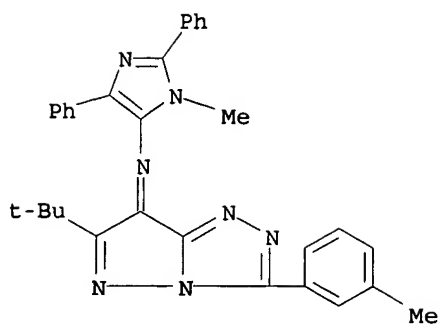
IT 260800-60-0 260800-64-4 260800-65-5  
260800-99-5 260801-00-1 260801-07-8  
260801-08-9 260801-15-8 260801-16-9  
260801-53-4 260801-63-6 260801-65-8  
260801-69-2 260801-70-5

RL: PRP (Properties); TEM (Technical or engineered material use);  
USES (Uses)

(lightfast coloring agents for image recording materials,  
thermal transfer materials, and ink-jet recording fluids)

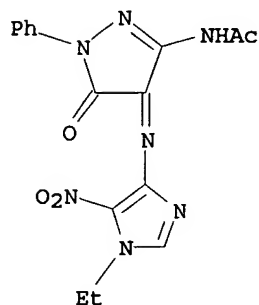
RN 260800-60-0 HCAPLUS

CN 1H-Imidazol-5-amine, N-[6-(1,1-dimethylethyl)-3-(3-methylphenyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]-1-methyl-2,4-diphenyl- (9CI) (CA INDEX NAME)



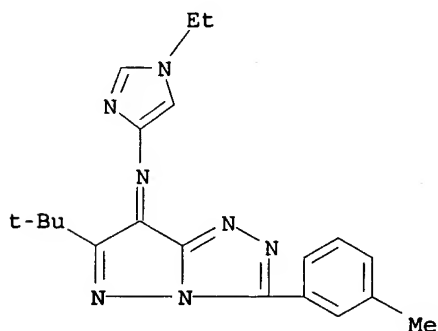
RN 260800-64-4 HCAPLUS

CN Acetamide, N-[4-[(1-ethyl-5-nitro-1H-imidazol-4-yl)imino]-4,5-dihydro-5-oxo-1-phenyl-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



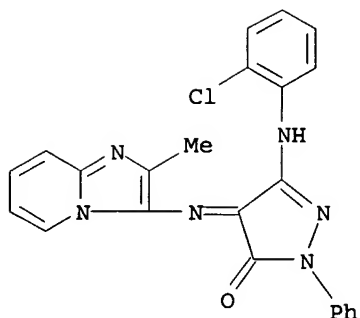
RN 260800-65-5 HCAPLUS

CN 1H-Imidazol-4-amine, N-[6-(1,1-dimethylethyl)-3-(3-methylphenyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]-1-ethyl- (9CI) (CA INDEX NAME)



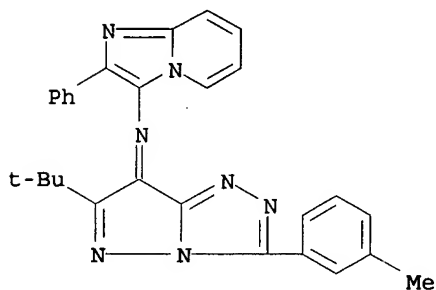
RN 260800-99-5 HCAPLUS

CN 3H-Pyrazol-3-one, 5-[(2-chlorophenyl)amino]-2,4-dihydro-4-[(2-methylimidazo[1,2-a]pyridin-3-yl)imino]-2-phenyl- (9CI) (CA INDEX NAME)



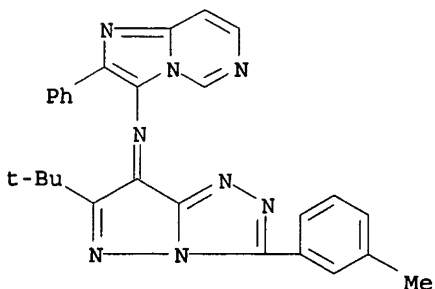
RN 260801-00-1 HCAPLUS

CN Imidazo[1,2-a]pyridin-3-amine, N-[6-(1,1-dimethylethyl)-3-(3-methylphenyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]-2-phenyl-(9CI) (CA INDEX NAME)



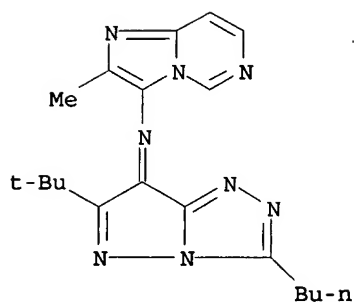
RN 260801-07-8 HCAPLUS

CN Imidazo[1,2-c]pyrimidin-3-amine, N-[6-(1,1-dimethylethyl)-3-(3-methylphenyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]-2-phenyl-(9CI) (CA INDEX NAME)



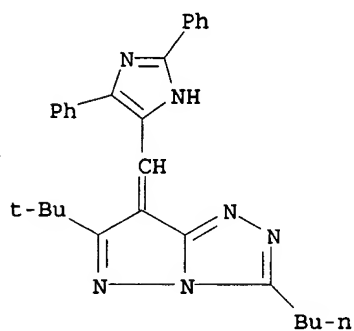
RN 260801-08-9 HCAPLUS

CN Imidazo[1,2-c]pyrimidin-3-amine, N-[3-butyl-6-(1,1-dimethylethyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]-2-methyl-(9CI) (CA INDEX NAME)



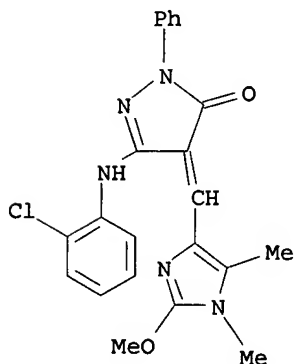
RN 260801-15-8 HCAPLUS

CN 7H-Pyrazolo[5,1-c]-1,2,4-triazole, 3-butyl-6-(1,1-dimethylethyl)-7-[(2,5-diphenyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



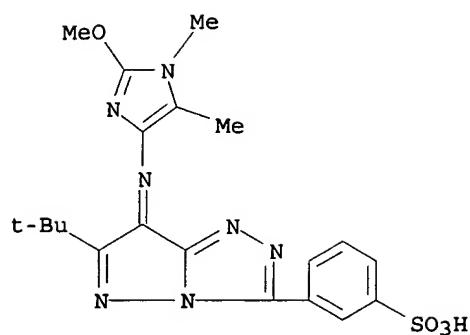
RN 260801-16-9 HCAPLUS

CN 3H-Pyrazol-3-one, 5-[(2-chlorophenyl)amino]-2,4-dihydro-4-[(2-methoxy-1,5-dimethyl-1H-imidazol-4-yl)methylene]-2-phenyl- (9CI) (CA INDEX NAME)



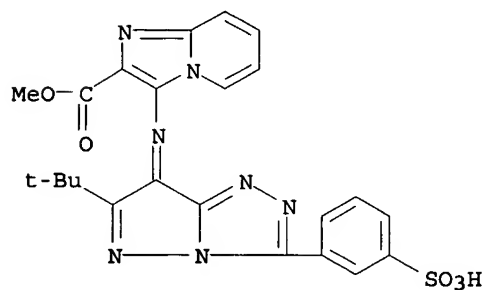
RN 260801-53-4 HCAPLUS

CN Benzenesulfonic acid, 3-[6-(1,1-dimethylethyl)-7-[(2-methoxy-1,5-dimethyl-1H-imidazol-4-yl)imino]-7H-pyrazolo[5,1-c]-1,2,4-triazol-3-yl]-, sodium salt (9CI) (CA INDEX NAME)



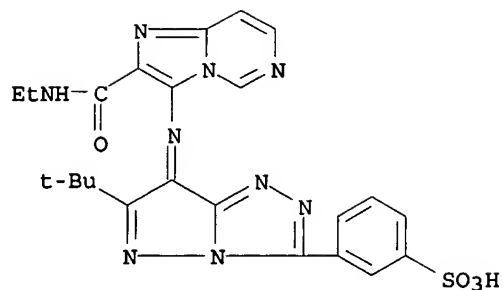
● Na

RN 260801-63-6 HCAPLUS  
 CN Imidazo[1,2-a]pyridine-2-carboxylic acid, 3-[[6-(1,1-dimethylethyl)-3-(3-sulfophenyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]amino]-, 2-methyl ester, sodium salt (9CI) (CA INDEX NAME)



● Na

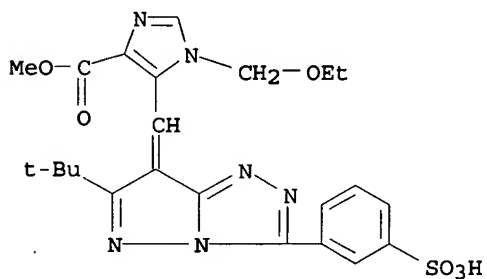
RN 260801-65-8 HCAPLUS  
 CN Benzenesulfonic acid, 3-[6-(1,1-dimethylethyl)-7-[[2-((ethylamino)carbonyl)imidazo[1,2-c]pyrimidin-3-yl]imino]-7H-pyrazolo[5,1-c]-1,2,4-triazol-3-yl]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 260801-69-2 HCAPLUS

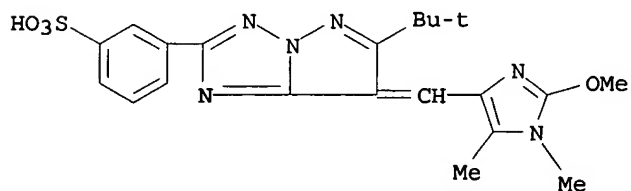
CN 1H-Imidazole-4-carboxylic acid, 5-[[6-(1,1-dimethylethyl)-3-(3-sulphophenyl)-7H-pyrazolo[5,1-c]-1,2,4-triazol-7-ylidene]methyl]-1-(ethoxymethyl)-, 4-methyl ester, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 260801-70-5 HCAPLUS

CN Benzenesulfonic acid, 3-[6-(1,1-dimethylethyl)-7-[(2-methoxy-1,5-dimethyl-1H-imidazol-4-yl)methylene]-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-, sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C09B023-00

ICS B41M005-00; B41M005-38; C09B055-00

CC 41-11 (Dyes, Organic Pigments, Fluorescent Brighteners, and

## Photographic Sensitizers)

Section cross-reference(s): 42, 74

IT 260800-41-7P 260800-61-1P 260800-77-9P 260800-95-1P  
 260801-27-2P 260801-28-3P 260801-29-4P 260801-30-7P  
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 260801-40-9P 260802-41-3P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (lightfast coloring agents for image recording materials, thermal transfer materials, and ink-jet recording fluids)

IT 260800-35-9 260800-36-0 260800-37-1 260800-38-2  
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 260802-18-4 260802-19-5

RL: PRP (Properties); TEM (Technical or engineered material use);  
 USES (Uses)

(lightfast coloring agents for image recording materials,  
 thermal transfer materials, and ink-jet recording fluids)

L73 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:451061 HCAPLUS

DOCUMENT NUMBER: 131:136710

TITLE: Photographic material containing photographic  
 useful non-diffusion dye microparticle  
 dispersion

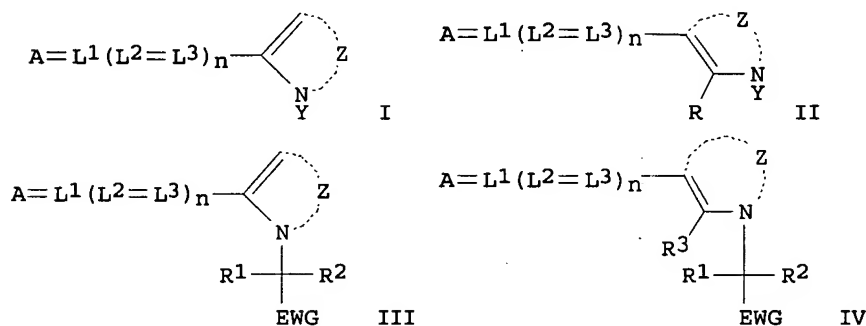
INVENTOR(S): Fukuda, Mitsuhiro; Sugino, Motoaki; Ohnishi,  
 Akira



PATENT ASSIGNEE(S): Konica Co., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 46 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11193352	A2	19990721	JP 1998-282634	1998 1005
PRIORITY APPLN. INFO.:			JP 1997-281954	A 1997 1015

OTHER SOURCE(S): MARPAT 131:136710  
 GI



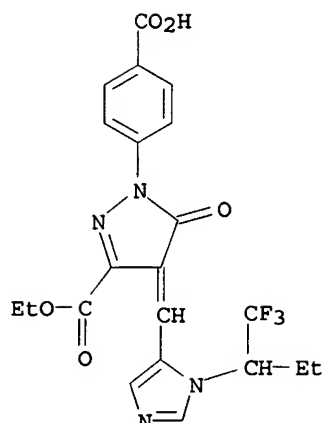
AB In the photog. material comprising on a support at least 1 light-sensitive emulsion layer and 1 light-insensitive emulsion layer, the photog. material contains the solid microparticle dispersion of I, II, III, or IV (A = acidic group; L1-3 = methine; n = 0, 1, 2; Z = non-metal atoms for forming N-containing heterocycle; Y = heterocycle; R = H, alkyl; EWG = electron withdrawing group). The photog. material may contain at least 1 kind of two-equivalent magenta coupler. The photog. material is processed in less than 200 s. The photog. material shows reduced fog, high sensitivity and improved stability.

IT 234753-71-0

RL: MOA (Modifier or additive use); USES (Uses)  
 (photog. material containing photog. useful non-diffusion dye microparticle dispersion comprising)

RN 234753-71-0 HCAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 1-(4-carboxyphenyl)-4,5-dihydro-5-oxo-4-[[1-[1-(trifluoromethyl)propyl]-1H-imidazol-5-yl]methylene]-3-ethyl ester (9CI) (CA INDEX NAME)



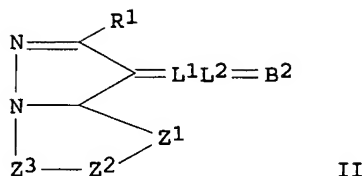
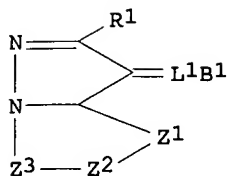
IC ICM C09B023-00  
 ICS C09B023-00; G03C001-06; G03C001-83; G03C007-384; G03C007-407  
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and  
 Other Reprographic Processes)  
 Section cross-reference(s): 41  
 IT 234753-66-3 234753-67-4 234753-68-5 234753-69-6  
 234753-70-9 234753-71-0 234753-72-1 234753-73-2  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (photog. material containing photog. useful non-diffusion dye  
 microparticle dispersion comprising)

L73 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1997:632381 HCAPLUS  
 DOCUMENT NUMBER: 127:301281  
 TITLE: Photopolymerizable composition for  
 presensitized planographic printing plate  
 INVENTOR(S): Nakayama, Noritaka; Matsuura, Mitsunori;  
 Matsumoto, Shinji  
 PATENT ASSIGNEE(S): Konica Corporation, Japan  
 SOURCE: Eur. Pat. Appl., 28 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 795787	A1	19970917	EP 1997-301586	1997 0310
EP 795787 R: DE, ES, GB	B1	20010207		
US 5858617	A	19990112	US 1997-812030	1997 0306
JP 09302012	A2	19971125	JP 1997-56149	1997 0311
JP 3653920	B2	20050602		
PRIORITY APPLN. INFO.:			JP 1996-54648	A 1996 0312

OTHER SOURCE(S): MARPAT 127:301281

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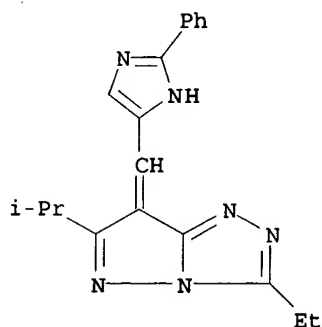
AB A photopolymerizable composition comprises a compound having an ethylenically unsatd. bond and a dye represented by the formula I or II (Z1-3 = N or CR2; R1, R2 = H, alkyl, alkenyl, aryl, or heterocyclyl; L1, L2 = a methine group; B1, B2 = aryl or a 5- or 6-membered heterocyclic ring residue) and is used in preparing a presensitized planog. printing plate.

IT 197081-35-9

RL: TEM (Technical or engineered material use); USES (Uses)  
(presensitized planog. printing plates using photopolymerizable compns. containing)

RN 197081-35-9 HCAPLUS

CN 7H-Pyrazolo[5,1-c]-1,2,4-triazole, 3-ethyl-6-(1-methylethyl)-7-[(2-phenyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



IC ICM G03F007-031

ICS G03F007-029

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 189100-87-6 189100-96-7 197081-28-0 197081-29-1

197081-30-4 197081-32-6 197081-33-7 197081-34-8

197081-35-9 197081-36-0 197081-37-1 197081-39-3

197081-40-6 197081-41-7 197081-42-8

RL: TEM (Technical or engineered material use); USES (Uses)  
(presensitized planog. printing plates using photopolymerizable compns. containing)

L73 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:532266 HCAPLUS

DOCUMENT NUMBER: 127:154568

TITLE: Silver halide photographic material providing low-fog images with less stains and its development

INVENTOR(S): Tanaka, Tatsuo; Sudo, Shin; Onishi, Akira; Komamura, Tawara

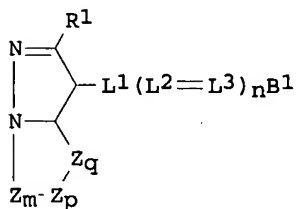
PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 34 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09160163	A2	19970620	JP 1995-314256	1995 1201
PRIORITY APPLN. INFO.:				JP 1995-314256 1995 1201
OTHER SOURCE(S):		MARPAT 127:154568		
GI				



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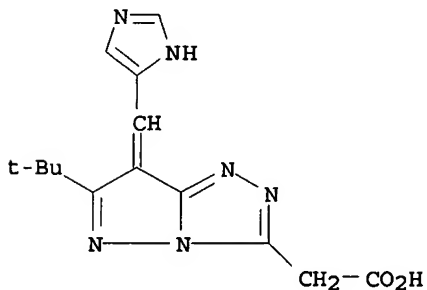
AB The material includes an emulsion layer and a photo-insensitive hydrophilic colloid layer containing a solid-powder dispersion of dye I [Za-c = N:, C(R<sub>2</sub>):; R<sub>1</sub>, R<sub>2</sub> = H, a monovalent substituent; L<sub>1</sub>-3 = methine; B<sub>1</sub> = 5- or 6-membered aromatic heterocycle; n = 0, 1]. The development uses a developer of pH 8.0-11.0 containing a dihydroxybenzene derivative or ascorbic acid and/or erythorbic acid. The material shows good safe-light characteristics and provides low-fog images with less color stains.

IT 193340-79-3

RL: TEM (Technical or engineered material use); USES (Uses)  
 (Ag halide photog. films for low-fog images and with less color stains and its development)

RN 193340-79-3 HCAPLUS

CN 7H-Pyrazolo[5,1-c]-1,2,4-triazole-3-acetic acid,  
 6-(1,1-dimethylethyl)-7-(1H-imidazol-4-ylmethylene)- (9CI) (CA  
 INDEX NAME)



IC ICM G03C001-36

ICS G03C001-06; G03C001-30; G03C001-83; G03C005-29; G03C005-30

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and

## Other Reprographic Processes)

Section cross-reference(s): 41

IT 193340-72-6 193340-73-7 193340-74-8 193340-75-9  
 193340-76-0 193340-77-1 193340-78-2 193340-79-3  
 193340-80-6 193340-81-7 193340-82-8 193340-83-9  
 193340-84-0 193340-85-1

RL: TEM (Technical or engineered material use); USES (Uses)  
 (Ag halide photog. films for low-fog images and with less color  
 stains and its development)

L73 ANSWER 13 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:305130 HCAPLUS

DOCUMENT NUMBER: 122:83961

TITLE: Dyes for thermal transfer printing materials

INVENTOR(S): Kamio, Takayoshi; Taniguchi, Masato

PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06219057	A2	19940809	JP 1993-10074	1993 0125

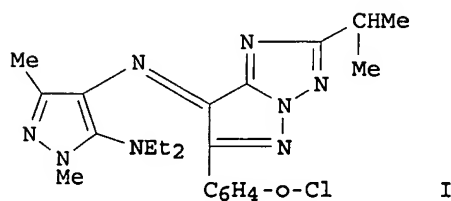
PRIORITY APPLN. INFO.:

JP 1993-10074

1993  
0125

OTHER SOURCE(S): MARPAT 122:83961

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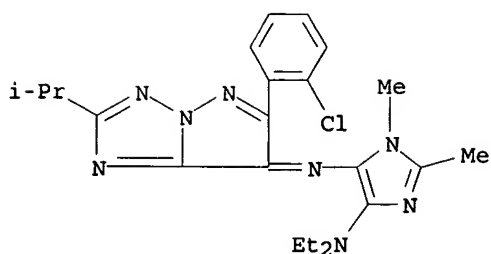
AB Dyes are QANR1R2, where Q = groups having absorption at visible and/or near IR region, A = (un)substituted 5-membered unsatd. hetero cyclics or optionally condensed rings, R1, R2 = H, alkyl, aryl, or hetero cyclics, R1 and R2, R1 and A, R2 and A optionally form rings. Thus, a dye donor layer contained I, poly(vinyl butyral), and a polyisocyanate.

IT 160382-89-8 160382-94-5

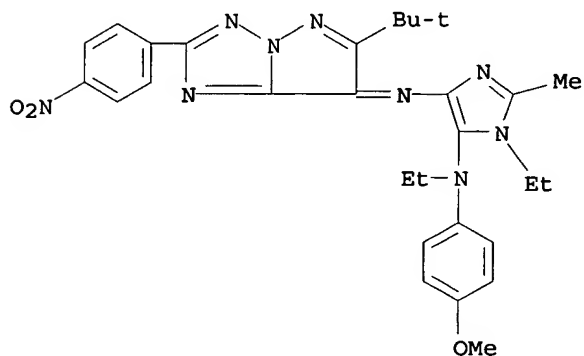
RL: MOA (Modifier or additive use); USES (Uses)  
 (dyes for thermal transfer printing materials)

RN 160382-89-8 HCAPLUS

CN 1H-Imidazole-4,5-diamine, N5-[6-(2-chlorophenyl)-2-(1-methylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-7-ylidene]-N4,N4-diethyl-1,2-dimethyl- (9CI) (CA INDEX NAME)



RN 160382-94-5 HCAPLUS  
 CN 1H-Imidazole-4,5-diamine, N4-[6-(1,1-dimethylethyl)-2-(4-nitrophenyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-7-ylidene]-N5,1-diethyl-N5-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)



IC ICM B41M005-30  
 CC 42-12 (Coatings, Inks, and Related Products)  
 Section cross-reference(s): 41  
 IT 160382-89-8 160382-90-1 160382-91-2 160382-92-3  
 160382-93-4 160382-94-5 160382-95-6 160382-96-7  
 160382-97-8 160382-98-9 160382-99-0 160383-00-6  
 160383-01-7 160383-02-8 160383-03-9  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (dyes for thermal transfer printing materials)

L73 ANSWER 14 OF 14 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1966:11478 HCAPLUS

DOCUMENT NUMBER: 64:11478

ORIGINAL REFERENCE NO.: 64:2081h,2082a-e

TITLE: Condensation products of 4(or 5)-nitroso-2,5(or 4)-diphenyl-imidazole and compounds containing reactive methylene groups  
 AUTHOR(S): Ruccia, Michele; Werber, Giuseppe  
 CORPORATE SOURCE: Univ. Palermo, Italy  
 SOURCE: Atti Accad. Sci., Lettere Arti Palermo Pt. I (1962), Volume Date 1961-1962, 22, 95-106

DOCUMENT TYPE: Journal

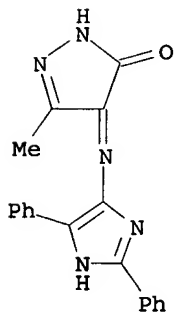
LANGUAGE: Italian

GI For diagram(s), see printed CA Issue.

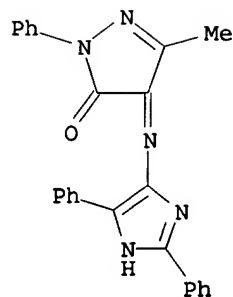
AB Reactions of I, II, and III with HCl as well as reactions of I with hydrazine, phenylhydrazine, and hydroxylamine, and their resp. hydrochlorides were studied. When a suspension of I in alc. was treated with slight excess of HCl, I slowly dissolved and 4-amino-2,5-diphenylimidazole hydrochloride, m. 262° (H2O), precipitated. The filtrate was made alkaline with NaHCO3 and to this solution PhNNH2 was added to give 4-phenylazo-1-phenyl-3-methyl-5-

pyrazolone, m. 155° (EtOH). Similarly II gave IV and 2,3,4-trioxopentane while III gave IV and an unknown compound only on prolonged refluxing in dioxane solution. From the suspension of I (1 g.) in 8 ml. EtOH immediately after the addition of 0.16 g. N<sub>2</sub>H<sub>4</sub> (85%) the precipitate of V, m. 280° (EtOAc), separated out. I (1 g.) was allowed to stand one week with 0.3 g. PhHNNH<sub>2</sub> to give VI, m. 232° (dioxane), slightly soluble in EtOH. NH<sub>2</sub>OH did not react with I at room temperature when allowed to stand for 40 days. I. (1 g.) was kept two days with 0.4 g. N<sub>2</sub>H<sub>4</sub>·HCl in 8 ml. EtOH to give insol. mixture of IV and V from which IV by extraction with hot H<sub>2</sub>O or EtOH could be isolated, while V, m. 280° (EtOAc or dioxane), remained undissolved. On standing for several days at room temperature in 8 ml. EtOH I (1 g.) gave with PhHNNH<sub>2</sub>·HCl insol. mixture from which IV was extracted with hot H<sub>2</sub>O and the insol. residue afforded VI, m. 232° (EtOAc or dioxane), the filtrate contained ethyl 2,3-dioxobutyrate which on treatment with Na<sub>2</sub>CO<sub>3</sub> and addition of 0.6 g. PhHNNH<sub>2</sub> afforded VII, m. 156° (EtOH). (I, R = Ac, R<sub>1</sub> = CO<sub>2</sub>Et); (II, R = Ac, R<sub>1</sub> = Ac); (III, R = CPh, R<sub>1</sub> = CN); (IV); (V, R = H); (VI, R = Ph); (VII), (VIII); Reaction of I (1 g.) with 0.38 g. NH<sub>2</sub>OH·HCl in 8 ml. EtOH at room temperature was completed in several days with formation of a precipitate from which IV was isolated through extraction with hot H<sub>2</sub>O, and insol. part gave VIII, m. 208° (EtOAc or dioxane). Ethyl 2,3-dioxobutyrate dioxime was isolated from the filtrate by extraction into Et<sub>2</sub>O. Authentic samples of VI, VII, and VIII were prepared by refluxing of IV with 3-methyl-5-pyrazolone or 1-phenyl-3-methylpyrazolone or 3-methyl isoxazolone in equimolar quantities in EtOH.

IT 4320-88-1, 2-Pyrazolin-5-one, 4-[[2,5(or 2,4)-diphenylimidazol-4(or 5)-yl]imino]-3-methyl-  
6992-74-1, 2-Pyrazolin-5-one, 4-[[2,5(or 2,4)-diphenylimidazol-4(or 5)-yl]imino]-3-methyl-1-phenyl-  
(preparation of)  
RN 4320-88-1 HCAPLUS  
CN 2-Pyrazolin-5-one, 4-[(2,5-diphenylimidazol-4-yl)imino]-3-methyl-  
(8CI) (CA INDEX NAME)



RN 6992-74-1 HCAPLUS  
CN 3H-Pyrazol-3-one, 4-[(2,5-diphenyl-1H-imidazol-4-yl)imino]-2,4-dihydro-5-methyl-2-phenyl- (9CI) (CA INDEX NAME)



CC 38 (Heterocyclic Compounds (More Than One Hetero Atom))  
 IT 4314-12-9, Imidazole, 4(or 5)-amino-2,5(or 2,4)-diphenyl-,  
 hydrochloride 4314-13-0, 2,3,4-Pentanetrione,  
 2,4-bis(phenylhydrazone) 4314-14-1, C.I. Disperse Yellow 16  
 4314-15-2, 2-Isoxazolin-5-one, 4-[[2,5-(or 2,4)-diphenylimidazol-  
 4(or 5)-yl]imino]-3-methyl- 4320-88-1,  
 2-Pyrazolin-5-one, 4-[[2,5(or 2,4)-diphenylimidazol-4(or  
 5)-yl]imino]-3-methyl- 4332-44-9, Butyric acid, 2,3-dioxo-,  
 ethyl ester, dioxime 4396-73-0, 1,3,4-Oxadiazolium,  
 5-hydroxy-3-isopropyl-2-methyl-, hydroxide, inner salt  
 6992-74-1, 2-Pyrazolin-5-one, 4-[[2,5(or  
 2,4)-diphenylimidazol-4(or 5)-yl]imino]-3-methyl-1-phenyl-  
 (preparation of)

=>